

Generic Name: Anidulafungin  
Trade Name: ECALTA  
CDS Effective Date: August 06, 2020  
Supersedes: March 09, 2020  
Approved by BPOM: August 07, 2021

## **LOCAL PRODUCT DOCUMENT PT. PFIZER INDONESIA**

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### **NAME OF THE MEDICINAL PRODUCT ECALTA**

### **QUALITATIVE AND QUANTITATIVE COMPOSITION**

Vials containing 100 mg anidulafungin powder and solvent for solution for infusion (see section **Special precautions for disposal and other handling**).

The reconstituted solution contains 3.33 mg/mL anidulafungin and the diluted solution contains 0.77 mg/mL anidulafungin.

For a full list of excipients, see section **List of excipients**.

### **PHARMACEUTICAL FORM**

Anidulafungin powder for solution for infusion. Powder: White to off-white lyophilized solid.

### **CLINICAL PARTICULARS**

#### **Therapeutic indications**

ECALTA (anidulafungin) is indicated for the treatment of candidemia in adult non-neutropenic patients.

ECALTA has been studied primarily in patients with candidemia and only in a limited number of patients with deep tissue *Candida* infections or with abscess-forming disease.

#### **Posology and method of administration**

Treatment with anidulafungin should be initiated by a physician experienced in the management of invasive fungal infections. Specimens for fungal culture should be obtained prior to therapy. Therapy may be initiated before culture results are known and can be adjusted accordingly once they are available.

A single 200 mg loading dose should be administered on Day 1, followed by 100 mg daily thereafter. Duration of treatment should be based on the patient's clinical response. In general, antifungal therapy should continue for at least 14 days after the last positive culture.

Generic Name: Anidulafungin  
Trade Name: ECALTA  
CDS Effective Date: August 06, 2020  
Supersedes: March 09, 2020  
Approved by BPOM: August 07, 2021

Anidulafungin should be reconstituted with the solvent to a concentration of 3.33 mg/mL and subsequently diluted to a concentration of 0.77 mg/mL before use according to the instructions given in section **Special precautions for disposal and other handling**.

It is recommended that ECALTA be administered at a rate of infusion that does not exceed 1.1 mg/minute (equivalent to 1.4 mL/minute). Infusion associated reactions are infrequent when the rate of anidulafungin infusion does not exceed 1.1 mg/minute.

ECALTA should not be administered as a bolus injection.

For patients with hereditary fructose intolerance (HFI), see section **Special warnings and precautions for use**.

### **Renal and hepatic impairment**

No dosing adjustments are required for patients with mild, moderate, or severe hepatic impairment. No dosing adjustments are required for patients with any degree of renal insufficiency, including those on dialysis. ECALTA can be given without regard to the timing of haemodialysis (see section **Pharmacokinetic properties**).

### **Duration of treatment**

There are insufficient data to support the 100 mg dose for longer than 35 days of treatment.

### **Other special populations**

No dosing adjustments are required for adult patients based on gender, weight, ethnicity, HIV positivity, or geriatric status (see section **Pharmacokinetic properties**).

### **Children and adolescents**

ECALTA is not recommended for use in children below 18 due to insufficient data on safety and efficacy (see section **Pharmacokinetic properties**).

### **Contraindications**

Hypersensitivity to the active substance, or to any of the excipients.

Hypersensitivity to other medicinal products of the echinocandin class (e.g. caspofungin).

### **Special warnings and precautions for use**

#### **Anaphylactic reactions**

Anaphylactic reactions, including shock, were reported with the use of anidulafungin. If these reactions occur, anidulafungin should be discontinued and appropriate treatment administered. (see section **Undesirable effects**)

The efficacy of anidulafungin in neutropenic patients with candidaemia and in patients with deep tissue *Candida* infections or intra-abdominal abscess and peritonitis has not been established.

Generic Name: Anidulafungin  
Trade Name: ECALTA  
CDS Effective Date: August 06, 2020  
Supersedes: March 09, 2020  
Approved by BPOM: August 07, 2021

Clinical efficacy has been evaluated primarily in non-neutropenic patients with *C. Albicans* infections and in a smaller number of patients infected with non-albicans, mainly *C. Glabrata*, *C. Parapsilosis* and *C. Tropicalis*. Patients with candida endocarditis, osteomyelitis or meningitis and known *C. Krusei* infection have not been studied.

### **Hepatic effects**

Increased levels of hepatic enzymes have been seen in healthy subjects and patients treated with anidulafungin. In some patients with serious underlying medical conditions who were receiving multiple concomitant medicines along with anidulafungin, clinically significant hepatic abnormalities have occurred. Isolated cases of significant hepatic dysfunction, hepatitis, or hepatic failure have been reported in patients; a causal relationship to anidulafungin has not been established. Patients with increased hepatic enzymes during anidulafungin therapy should be monitored for evidence of worsening hepatic function and evaluated for risk/benefit of continuing anidulafungin therapy.

### **Infusion-related reactions**

Infusion-related adverse events have been reported with anidulafungin, including rash, urticaria, flushing, pruritus, dyspnea, bronchospasm and hypotension. Infusion-related adverse events are infrequent when the rate of anidulafungin infusion does not exceed 1.1 mg/minute (see sections Posology and method of administration, Undesirable effects and Special precautions for disposal and other handling).

Exacerbation of infusion-related reactions by co-administration of anaesthetics has been seen in a nonclinical (rat) study (see section **Preclinical safety data**). The clinical relevance of this is unknown. Nevertheless, care should be taken when co-administering anidulafungin and anaesthetic agents.

### **Patients with hereditary fructose intolerance**

Patients with hereditary fructose intolerance (HFI) should not be given this medicine unless strictly necessary.

A detailed history with regard to HFI symptoms should be taken of each patient prior to being given this medicinal product.

### **Interaction with other medicinal products and other forms of interaction**

Preclinical in vitro and in vivo studies and clinical studies have demonstrated that anidulafungin is not a clinically relevant substrate, inducer, or inhibitor of cytochrome P450 isoenzymes. Interaction studies have only been performed in adults. Anidulafungin has negligible renal clearance (<1%). Minimal interactions are expected with the concomitant medications (see section **Pharmacokinetic properties**).

In vitro studies showed that anidulafungin is not metabolized by human cytochrome P450 or by isolated human hepatocytes, and anidulafungin does not significantly inhibit the activities of human CYP isoforms (1A2, 2B6, 2C8, 2C9, 2C19, 2D6, 3A) at clinically relevant

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Trade Name: ECALTA  
CDS Effective Date: August 06, 2020  
Supersedes: March 09, 2020  
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concentrations.

No clinically relevant drug-drug interactions were observed with the following drugs likely to be co-administered with anidulafungin.

**Cyclosporin** (CYP3A4 substrate): In a study of 12 healthy adult subjects who received 100 mg/day anidulafungin following a 200 mg loading dose alone and in combination with 1.25 mg/kg oral cyclosporin twice daily, the steady-state plasma peak concentration ( $C_{max}$ ) of anidulafungin was not significantly altered by cyclosporin; however the steady state area under the concentration-time curve (AUC) was increased by 22%. An in vitro study has shown that anidulafungin has no effect on the metabolism of cyclosporine. Adverse events observed in this study were consistent with those observed in other studies where anidulafungin only was administered. No dosage adjustment of either drug is required when they are co-administered.

**Voriconazole** (CYP2C19, CYP2C9, CYP3A4 inhibitor and substrate): In a study of 17 healthy subjects who received 100 mg/day anidulafungin alone following a 200 mg loading dose, 200 mg twice daily oral voriconazole alone following 400 mg twice on the first day as loading doses, and both in combination, the steady-state  $C_{max}$  and AUC of anidulafungin and voriconazole were not significantly altered by co-administration. No dosage adjustment of either drug is required when co-administered.

**Tacrolimus** (CYP3A4 substrate): In a study of 35 healthy subjects who received a single oral dose of 5 mg tacrolimus alone, 100 mg/day anidulafungin alone following a 200 mg loading dose and both in combination, the steady-state  $C_{max}$  and AUC of anidulafungin and tacrolimus were not significantly altered by co-administration. No dosage adjustment of either drug is required when co-administered.

**Liposomal amphotericin B**: The pharmacokinetics of anidulafungin were examined in 27 patients (100 mg/day anidulafungin) who were co-administered with liposomal amphotericin B (doses up to 5 mg/kg/day). The population pharmacokinetic analysis showed that, the pharmacokinetics of anidulafungin were not significantly altered by co-administration with amphotericin B when compared to data from patients who did not receive amphotericin B. No dosage adjustment of anidulafungin is required.

**Rifampicin** (potent CYP450 inducer): The pharmacokinetics of anidulafungin were examined in 27 patients (50 or 75 mg/day anidulafungin) who were co-administered with rifampicin (doses up to 600 mg/day). The population pharmacokinetic analysis showed that when compared to data from patients that did not receive rifampicin, the pharmacokinetics of anidulafungin were not significantly altered by co-administration with rifampicin. No dosage adjustment of anidulafungin is required.

## **Pregnancy and lactation**

Generic Name: Anidulafungin  
Trade Name: ECALTA  
CDS Effective Date: August 06, 2020  
Supersedes: March 09, 2020  
Approved by BPOM: August 07, 2021

Animal studies have shown no selective reproductive toxicity (see section **Preclinical safety data**). There are no adequate or well-controlled data regarding the use of anidulafungin in pregnant women. Therefore, anidulafungin is not recommended in pregnancy.

Animal studies have shown excretion of anidulafungin in breast milk. It is not known whether anidulafungin is excreted in human breast milk. A decision on whether to continue/discontinue breast-feeding or to continue/discontinue therapy with anidulafungin should be made taking into account the benefit of breast-feeding to the child and the benefit of anidulafungin to the mother.

### **Effects on ability to drive and use machines**

No studies on the effects on the ability to drive and use machines have been performed.

### **Undesirable effects**

Nine hundred and twenty-nine (929) patients received intravenous anidulafungin in clinical trials (672 in Phase 2/3 studies and 257 in Phase I studies). Of the 669 Phase 2/3 patients for whom safety data are available, five hundred and five (505) received anidulafungin for  $\geq 14$  days.

Three studies (one comparative vs. fluconazole, 2 non-comparative) assessed the efficacy of anidulafungin (100 mg) in patients with candidaemia and other deep tissue *Candida* infections. In these three studies, a total of 204 patients received anidulafungin, 119 for  $\geq 14$  days. Adverse events were typically mild to moderate and seldom led to discontinuation. The drug-related adverse events (MedDRA) listed below were reported with frequencies corresponding to Common ( $\geq 1/100$ ,  $\leq 1/10$ ); Uncommon ( $\geq 1/1000$ ,  $< 1/100$ ). Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness.

Infusion-related adverse events have been reported with anidulafungin, including rash, urticaria, flushing, pruritus, dyspnea, bronchospasm and hypotension. These events can be minimized by infusing anidulafungin at a rate that does not exceed 1.1 mg/minute.

### **Infections and infestations**

Uncommon: Fungaemia, Candidiasis, Clostridium colitis, Oral candidiasis

### **Blood and lymphatic system disorders**

Common: Thrombocytopenia, Coagulopathy

Uncommon: Thrombocythaemia

### **Immune system disorders**

Not known: Anaphylactic shock, Anaphylactic reaction

### **Metabolism and nutrition disorders**

Common: Hyperkalaemia, Hypokalaemia, Hypomagnesaemia

Uncommon: Hyperglycaemia, Hypercalcaemia, Hyponatraemia

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Trade Name: ECALTA  
CDS Effective Date: August 06, 2020  
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### **Nervous system disorders**

Common: Convulsion, Headache

### **Eye disorders**

Uncommon: Eye pain, Visual disturbance, Vision blurred

### **Cardiac disorders**

Uncommon: Atrial fibrillation, Sinus arrhythmia, Ventricular extrasystoles, Bundle branch block right

### **Vascular disorders**

Common: Flushing

Uncommon: Thrombosis, Hypertension, Hot flush

### **Gastrointestinal disorders**

Common: Diarrhoea

Uncommon: Abdominal pain upper, Vomiting, Faecal incontinence, Nausea, Constipation

### **Hepatobiliary disorders**

Common: Gamma-glutamyltransferase increased, Blood alkaline phosphatase increased, Aspartate aminotransferase increased, Alanine aminotransferase increased

Uncommon: Liver function test abnormal, Cholestasis, Hepatic enzyme increased, Transaminases increased

### **Skin and subcutaneous tissue disorders**

Common: Rash, Pruritis

Uncommon: Urticaria, Pruritus generalised

### **Musculoskeletal and connective tissue disorders**

Uncommon: Back pain

### **General disorders and administration site conditions**

Uncommon: Infusion site pain

### **Investigations**

Common: Blood bilirubin increased, Platelet count decreased, Blood creatinine increased, Electrocardiogram QT prolonged

Uncommon: Blood amylase increased, Blood magnesium decreased, Blood potassium decreased, Electrocardiogram abnormal, Lipase increased, Platelet count increased, Blood urea increased

### **Respiratory, thoracic and mediastinal disorders**

Not known: Bronchospasm

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Trade Name: ECALTA  
CDS Effective Date: August 06, 2020  
Supersedes: March 09, 2020  
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In the safety assessment of the full Phase 2/3 patient population (N = 669), the following additional adverse events, all uncommon ( $\geq 1/1000$ ,  $< 1/100$ ), were of note: neutropenia, leukopenia, anaemia, hyperuricaemia, hypocalcaemia, hyponatraemia, hypoalbuminaemia, hypophosphataemia, anxiety, delirium, confusional state, hallucination auditory, dizziness, paraesthesia, central pontine myelinolysis, dysgeusia, Guillain-Barré syndrome, tremor, altered visual depth perception, deafness unilateral, phlebitis, thrombophlebitis superficial, hypotension, lymphangitis, dyspepsia, dry mouth, oesophageal ulcer, hepatic necrosis, angioneurotic edema, hyperhidrosis, myalgia, monoarthritis, renal failure, haematuria, pyrexia, chills, oedema peripheral, injection site reaction, blood creatine phosphokinase increased, blood lactate dehydrogenase increased, lymphocyte count decreased.

### **Overdose**

As with any overdose, general supportive measures should be utilized as necessary.

During clinical trials a single 400 mg dose of anidulafungin was inadvertently administered as a loading dose. No clinical adverse events were reported. In a study of 10 healthy subjects administered a loading dose of 260 mg followed by 130 mg daily, anidulafungin was well tolerated with no dose limiting toxicity; 3 of the 10 subjects experienced transient, asymptomatic transaminase elevations (3 x ULN).

Anidulafungin is not dialysable.

## **PHARMACOLOGICAL PROPERTIES**

### **Pharmacodynamic properties**

#### General properties

Pharmacotherapeutic group: Antimycotics for systemic use, other antimycotics ATC code: JO2 AX 06

#### Mode of Action

Anidulafungin is a semi-synthetic echinocandin, a lipopeptide synthesised from a fermentation product of *Aspergillus nidulans*.

Anidulafungin selectively inhibits 1,3- $\beta$ -D glucan synthase, an enzyme present in fungal, but not mammalian cells. This results in inhibition of the formation of 1,3- $\beta$ -D-glucan, an essential component of the fungal cell wall. Anidulafungin has shown fungicidal activity against *Candida* species and activity against regions of active cell growth of the hyphae of *Aspergillus fumigatus*.

#### Activity in vitro

Anidulafungin is active *in vitro* against *Candida* spp. including *C. albicans*, *C. glabrata*, *C. krusei*, *C. parapsilosis*, *C. tropicalis*, *C. dubliniensis*, *C. lusitaniae*, and *C. guilliermondii* and *Aspergillus* species including *A. fumigatus*, *A. flavus*, *A. niger*, and *A. terreus*. Its activity is not affected by resistance to other classes of antifungal agents.

Generic Name: Anidulafungin  
Trade Name: ECALTA  
CDS Effective Date: August 06, 2020  
Supersedes: March 09, 2020  
Approved by BPOM: August 07, 2021

MICs were determined according to the Clinical and Laboratory Standard Institute (CLSI) approved standard reference method M27 for yeasts. The relationship between clinical response and *in vitro* activity remains to be elucidated.

#### Activity in vivo

Parenterally administered anidulafungin was effective against *Candida* spp. in immunocompetent and immunocompromised mouse and rabbit models. Anidulafungin treatment prolonged survival and also reduced the organ burden of *Candida* spp.

Experimental infections included disseminated *C. albicans* infection in neutropenic rabbits, esophageal/oropharyngeal infection of neutropenic rabbits with fluconazole-resistant *C. albicans* and disseminated infection of neutropenic mice with fluconazole-resistant *C. glabrata*. Anidulafungin has also demonstrated activity against *Aspergillus fumigatus* in mouse and rabbit infection models.

#### *In combination with other antifungal agents*

*In vitro* studies of anidulafungin in combination with fluconazole, itraconazole and amphotericin B suggest no antagonism of antifungal activity against *Candida* species. The clinical significance of these results is unknown. *In vitro* studies have evaluated the activity of anidulafungin in combination with itraconazole, voriconazole, and amphotericin B against *Aspergillus* spp. The combination of anidulafungin and amphotericin B showed indifference for 16 of 26 isolates, while anidulafungin in combination with either itraconazole or voriconazole showed synergy against 18 of 26 isolates. The clinical significance of these results is unknown.

#### Mechanism of Resistance

As breakpoints have not been established for any echinocandin, potential resistance may be assumed if there is a significant rise in MICs for an isolate. No increase in anidulafungin MICs was seen in isolates from clinical trials. In addition, resistance was not seen in either *in vitro* or animal studies. Among a number of isolates with elevated echinocandin MICs, only one isolate having a mutation in the gene encoding the target enzyme 1,3-beta-D glucan synthase was reported to have an increased anidulafungin MIC, suggesting the lack of complete cross resistance among echinocandins.

Generic Name: Anidulafungin  
Trade Name: ECALTA  
CDS Effective Date: August 06, 2020  
Supersedes: March 09, 2020  
Approved by BPOM: August 07, 2021

## **Information from Clinical Studies**

### **Candidemia and other forms of Invasive Candidiasis**

The safety and efficacy of anidulafungin were evaluated in a pivotal, Phase 3, randomised, double-blind, multicentre, multinational study of patients with candidemia and/or other forms of invasive candidiasis, associated with clinical signs of infection. Patients were randomised to receive once daily i.v. anidulafungin (200 mg loading dose followed by 100 mg maintenance dose) or i.v. fluconazole (800 mg loading dose followed by 400 mg maintenance dose). Patients were stratified by APACHE II score ( $\leq 20$  and  $> 20$ ) and the presence or absence of neutropenia. Patients with *Candida* endocarditis, osteomyelitis or meningitis, or those with infection due to *C. krusei*, were excluded from the study. Treatment was administered for at least 14 and not more than 42 days. Patients in both study arms were permitted to switch to oral fluconazole after at least 10 days of intravenous therapy, provided that they were able to tolerate oral medication, were afebrile for at least 24 hours, and the most recent blood cultures were negative for *Candida* species.

Patients who received at least one dose of study medication and who had a positive culture for *Candida* species from a normally sterile site before entry into the study (modified intent-to-treat [MITT] population) were included in the primary analysis of global response at the end of i.v. therapy. A successful global response required clinical improvement and microbiological eradication. Patients were followed for six weeks beyond the end of all therapy.

Two hundred and fifty-six patients (aged 16 to 91 years) were randomised to treatment and received at least one dose of study medication. Two hundred and forty-five patients (127 anidulafungin, 118 fluconazole) met the criteria for inclusion in the MITT population. Of these, 219 patients (116 anidulafungin (91.3%), 103 fluconazole (87.3%)) had candidemia only; 5.5% patients in the anidulafungin arm and 9.3% patients in the fluconazole arm had infections at other normally sterile sites; finally 3.1% patients in the anidulafungin arm and 3.4% patients in the fluconazole arm had both (candidemia and infections at other normally sterile sites). The most frequent species isolated at baseline were *C. albicans* (63.8% anidulafungin, 59.3% fluconazole), followed by *C. glabrata* (15.7%, 25.4%), *C. parapsilosis* (10.2%, 13.6%) and *C. tropicalis* (11.8%, 9.3%). The majority (97%) of patients were non-neutropenic (ANC  $> 500$ ) and 81% had APACHE II scores less than or equal to 20.

At the end of i.v. therapy, anidulafungin was superior to fluconazole in the treatment of patients with candidemia and/or other forms of invasive candidiasis. In the anidulafungin arm, 96 patients (75.6%) had global success versus 71 patients (60.2%) in the fluconazole arm. The between group difference in global success rate (anidulafungin global success rate minus fluconazole global success rate) was 15.4% (95% CI: 3.9, 27.0).

## **Pharmacokinetic properties**

### **General Pharmacokinetic Characteristics**

The pharmacokinetics of anidulafungin have been characterized in healthy subjects, special populations and patients. A low intersubject variability in systemic exposure (coefficient of

Generic Name: Anidulafungin  
Trade Name: ECALTA  
CDS Effective Date: August 06, 2020  
Supersedes: March 09, 2020  
Approved by BPOM: August 07, 2021

variation of approximately 25%) was observed. The steady-state was achieved on the first day after a loading dose (twice the daily maintenance dose).

### **Distribution**

The pharmacokinetics of anidulafungin are characterized by a rapid distribution half-life (0.5-1 hour) and a volume of distribution of 30-50 L that is similar to total body fluid volume. Anidulafungin is extensively bound (>99%) to human plasma proteins.

### **Biotransformation**

Hepatic metabolism of anidulafungin has not been observed. Anidulafungin is not a clinically relevant substrate, inducer, or inhibitor of cytochrome P450 isoenzymes. It is unlikely that anidulafungin will have clinically relevant effects on the metabolism of drugs metabolized by cytochrome P450 isoenzymes.

Anidulafungin undergoes slow chemical degradation at physiologic temperature and pH to a ring-opened peptide that lacks antifungal activity. The in vitro degradation half-life of anidulafungin under physiologic conditions is approximately 24 hours. In vivo, the ring-opened product is subsequently converted to peptidic degradants and eliminated mainly through biliary excretion.

### **Elimination**

The clearance of anidulafungin is about 1 L/h. Anidulafungin has a predominant elimination half-life of approximately 24 hours that characterizes the majority of the plasma concentration-time profile and a terminal half-life of 40-50 hours that characterizes the terminal elimination phase of the profile.

In a single-dose clinical study, radiolabeled (<sup>14</sup>C) anidulafungin (~88 mg) was administered to healthy subjects. Approximately 30% of the administered radioactive dose was eliminated in the faeces over 9 days, of which less than 10% was intact drug. Less than 1% of the administered radioactive dose was excreted in the urine. Anidulafungin concentrations fell below the lower limits of quantitation 6 days post-dose. Negligible amounts of drug-derived radioactivity were recovered in blood, urine, and faeces 8 weeks post-dose.

### **Linearity**

Anidulafungin displays linear pharmacokinetics across a wide range of once daily doses (15-130 mg).

### **Special Populations**

#### ***Patients with fungal infections***

The pharmacokinetics of anidulafungin in patients with fungal infections are similar to those observed in healthy subjects based on population pharmacokinetic analyses. With the 200/100 mg daily dose regimen at an infusion rate of 1 mg/min, the steady-state  $C_{max}$  and trough concentrations  $C_{min}$  could reach approximately 7 and 3 mg/L, respectively, with an

Generic Name: Anidulafungin  
Trade Name: ECALTA  
CDS Effective Date: August 06, 2020  
Supersedes: March 09, 2020  
Approved by BPOM: August 07, 2021

average steady-state AUC of approximately 110 mg h/L.

### ***Weight***

Though weight was identified as a source of variability in clearance in the population pharmacokinetic analysis, weight has little clinical relevance on the pharmacokinetics of anidulafungin.

### ***Gender***

Plasma concentrations of anidulafungin in healthy men and women were similar. In multiple-dose patient studies, drug clearance was slightly faster (approximately 22%) in men.

### ***Elderly***

The population pharmacokinetic analysis showed that median clearance differed slightly between the elderly group (patients  $\geq 65$ , median CL = 1.07 L/h) and the non-elderly group (patients  $< 65$ , median CL = 1.22 L/h), however, the range of clearance was similar.

### ***Ethnicity***

Anidulafungin pharmacokinetics were similar among Caucasian, Blacks, Asians, and Hispanics.

### ***HIV Positivity***

Dosage adjustments are not required based on HIV positivity, irrespective of concomitant anti-retroviral therapy.

### ***Hepatic Insufficiency***

Anidulafungin is not hepatically metabolised. Anidulafungin pharmacokinetics were examined in subjects with Child-Pugh class A, B or C hepatic insufficiency. Anidulafungin concentrations were not increased in subjects with any degree of hepatic insufficiency. Although a slight decrease in AUC was observed in patients with Child-Pugh C hepatic insufficiency, the decrease was within the range of population estimates noted for healthy subjects.

### ***Renal Insufficiency***

Anidulafungin has negligible renal clearance ( $< 1\%$ ). In a clinical study of subjects with mild, moderate, severe or end stage (dialysis-dependent) renal insufficiency, anidulafungin pharmacokinetics were similar to those observed in subjects with normal renal function. Anidulafungin is not dialyzable and may be administered without regard to the timing of hemodialysis.

### ***Pediatric***

The pharmacokinetics of anidulafungin after daily doses were investigated in 24 immunocompromised paediatric (2 to 11 years old) and adolescent (12 to 17 years old) patients with neutropenia. The steady-state was achieved on the first day after a loading dose (twice the maintenance dose), and the steady-state  $C_{max}$  and  $AUC_{ss}$  increase in a dose-

Generic Name: Anidulafungin  
Trade Name: ECALTA  
CDS Effective Date: August 06, 2020  
Supersedes: March 09, 2020  
Approved by BPOM: August 07, 2021

proportional manner. The systemic exposures following the daily maintenance doses, 0.75 and 1.5 mg/kg/day in patients aged 2 to 17 years old were comparable to those observed in adults following 50 and 100 mg/day, respectively.

### **Preclinical safety data**

Non-clinical data reveal no special hazards for humans based on conventional studies of safety pharmacology, acute toxicity, repeated dose toxicity, and toxicity to reproduction. In 3-month studies, evidence of liver toxicity, including elevated enzymes and morphologic alterations, was observed in both rats and monkeys at doses 4- to 6-fold higher than the anticipated clinical therapeutic exposure. In vitro and in vivo genotoxicity studies with anidulafungin provided no evidence of genotoxic potential. Long-term studies in animals have not been conducted to evaluate the carcinogenic potential of anidulafungin.

Administration of anidulafungin to rats did not indicate any effects on reproduction, including male and female fertility.

Anidulafungin crossed the placental barrier in rats and was detected in fetal plasma. The potential risk to the human fetus is unknown.

Anidulafungin was found in the milk of lactating rats. It is not known whether anidulafungin is excreted in human milk.

Anidulafungin did not produce any drug-related developmental toxicity in rats at the highest dose of 20 mg/kg/day, a dose equivalent to 2 times the proposed therapeutic maintenance dose of 100 mg on the basis of relative body surface area. Developmental effects observed in rabbits (slightly reduced fetal weights) occurred in the high dose group, a dose that also produced maternal toxicity.

## **PHARMACEUTICAL PARTICULARS**

### **List of excipients**

#### Powder:

Fructose  
Mannitol (E421)  
Polysorbate 80 (E433)  
Tartaric acid (E334)  
Sodium hydroxide (for pH-adjustment)  
Hydrochloric acid (for pH-adjustment)

### **Incompatibilities**

This medicinal product must not be mixed or co-administered with other medicinal products or electrolytes except those mentioned in section **Special precautions for disposal and other handling**.

### **Shelf life**

Generic Name: Anidulafungin  
Trade Name: ECALTA  
CDS Effective Date: August 06, 2020  
Supersedes: March 09, 2020  
Approved by BPOM: August 07, 2021

3 years

Reconstituted Solution:

Chemical and physical in-use stability of the reconstituted solution has been demonstrated for 24 hours at 25°C.

From a microbiological point of view, following good aseptic practices, the reconstituted solution can be utilized for up to 24 hours when stored at 25°C.

Infusion Solution:

Do not freeze.

Chemical and physical in-use stability of the infusion solution has been demonstrated for 48 hours at 25°C.

From a microbiological point of view, following good aseptic practices, the infusion solution can be utilized for up to 48 hours from preparation when stored at 25°C.

**Special precautions for storage**

The unreconstituted vials should be stored at 2°C - 8°C. Excursions for up to 96 hours at temperatures up to 25°C are permitted, and the vial can be returned to the refrigerated storage (2°C – 8°C).

**Special precautions for disposal and other handling**

Anidulafungin must be reconstituted with water for injection and subsequently diluted with ONLY 9 mg/mL (0.9%) sodium chloride for infusion or 50 mg/mL (5%) glucose for infusion. The compatibility of reconstituted anidulafungin with intravenous substances, additives, or medications other than 9 mg/mL (0.9%) sodium chloride for infusion or 50 mg/mL (5%) glucose for infusion has not been established. The infusion solution must not be frozen.

*Reconstitution*

Aseptically reconstitute each vial with 30 mL water for injection to provide a concentration of 3.33 mg/mL. The reconstituted solution should be clear and free from visible particulates. The reconstituted solution should be further diluted within an hour.

*Dilution and Infusion*

**Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. If particulate matter or discoloration is identified, discard the solution.**

Adult Patients

Aseptically transfer the contents of the reconstituted vial(s) into an IV bag (or bottle) containing either 9 mg/mL (0.9%) sodium chloride for infusion or 50 mg/mL (5%) glucose for infusion to obtain the appropriate anidulafungin concentration. The table below provides

Generic Name: Anidulafungin  
Trade Name: ECALTA  
CDS Effective Date: August 06, 2020  
Supersedes: March 09, 2020  
Approved by BPOM: August 07, 2021

the dilution to a concentration of 0.77 mg/mL for the final infusion solution and infusion instructions for each dose.

#### Dilution Requirements for Anidulafungin Administration

Dose	Number of Vials Required	Total Reconstituted Volume Required	Infusion Volume <sup>A</sup>	Total Infusion Volume <sup>B</sup>	Rate of Infusion	Minimum Duration of Infusion
100 mg	1	30 mL	100 mL	130 mL	1.4 mL/min or 84 mL/hour	90 min
200 mg	2	60 mL	200 mL	260 mL	1.4 mL/min or 84 mL/hour	180 min

<sup>A</sup> Either 9 mg/mL (0.9%) sodium chloride for infusion or 50 mg/mL (5%) glucose for infusion.

<sup>B</sup> Infusion solution concentration is 0.77 mg/mL.

**The rate of infusion should not exceed 1.1 mg/minute** (see section **CLINICAL PARTICULARS-sections Special warnings and precautions for use and Undesirable effects**). The rate of infusion is equivalent to 1.4 mL/min or 84 mL/hour for the 100 mg and 200 mg doses.

**For single use only. Waste materials should be disposed of in accordance with local requirements.**

#### Supply

ECALTA 100 mg: Box, vial 100 mg; No. Reg. DKI1272100880A1

#### HARUS DENGAN RESEP DOKTER

#### Manufactured by:

Pharmacia & Upjohn Company LLC, Kalamazoo, USA

#### Imported by:

PT. Pfizer Indonesia  
Jakarta, Indonesia