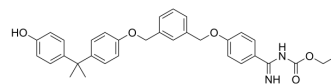


Amelubant

Cat. No.:	HY-19304		
CAS No.:	346735-24-8		
Molecular Formula:	C ₃₃ H ₃₄ N ₂ O ₅		
Molecular Weight:	538.63		
Target:	Leukotriene Receptor		
Pathway:	GPCR/G Protein		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (185.66 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.8566 mL	9.2828 mL	18.5656 mL
5 mM	0.3713 mL	1.8566 mL	3.7131 mL
10 mM	0.1857 mL	0.9283 mL	1.8566 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Amelubant (BIIL 284) is a potent, oral and long acting LTB₄ receptor antagonist, negligibly binds to LTB₄ receptor, with K_is of 221 nM and 230 nM in vital cells and membranes. Amelubant (BIIL 284) is a proagent of active metabolites BIIL 260 and BIIL 315. Anti-inflammatory activity^[1].

IC₅₀ & Target

LTB ₄ 221 nM (K _i , in vital human granulocytes)	LTB ₄ 230 nM (K _i , in cell membranes)
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In Vitro

Amelubant is a prodrug of active metabolites BIIL 260 and BIIL 315, which are reversible and competitive LTB₄ receptor antagonists, with K_is of 1.4, 1.1 nM and 1.7, 1.9 nM in vital cells and membranes, respectively^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Birke FW, et al. In vitro and in vivo pharmacological characterization of BIIL 284, a novel and potent leukotriene B(4) receptor antagonist. J Pharmacol Exp Ther. 2001 Apr;297(1):458-66.

Caution: Product has not been fully validated for medical applications. For research use only.

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