Cymal-6

Cat. No.: HY-142128

CAS No.: 228579-27-9

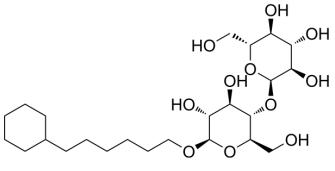
Molecular Formula: $C_{24}H_{44}O_{11}$

Molecular Weight: 508.6

Target: Bacterial

Pathway: Anti-infection

Storage: 4°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (491.55 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9662 mL	9.8309 mL	19.6618 mL
	5 mM	0.3932 mL	1.9662 mL	3.9324 mL
	10 mM	0.1966 mL	0.9831 mL	1.9662 mL

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

BIOLOGICAL ACTIVITY

Description

Cymal-6 (Cyclohexyl-hexyl-β-D-maltoside) is a potent TEM-1 beta-lactamase inhibitor with an K_i value of 40.05 μM. Cymal-6 (Cyclohexyl-hexyl-β-D-maltoside) can be used as glycosidic surfactant[1][2].

IC_{50} & Target

K_i: 40.05 μM (TEM-1 beta-lactamase)[1]

REFERENCES

[1]. Avci FG, et al. Targeting a hidden site on class A beta-lactamases. J Mol Graph Model. 2018 Sep;84:125-133.

[2]. Ju M, et al. Enantioseparations by capillary electrophoresis using chiral glycosidic surfactants. II. Comparisonof chiral cyclohexyl-alkyl-β-D-maltoside surfactant. Journal of Liquid Chromatography & Related Technologies. 2000, 23(1):35-45.

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

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