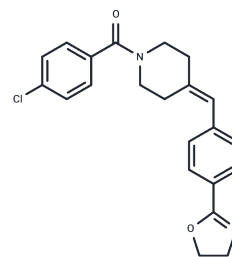


BIBB 515

## Chemical Properties

CAS No. :	156635-05-1
Formula:	C <sub>22</sub> H <sub>21</sub> ClN <sub>2</sub> O <sub>2</sub>
Molecular Weight:	380.87
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	BIBB 515 is a selective and potent inhibitor of OSC in vivo with an ED <sub>50</sub> value of 0.2-0.5 and 0.36-33.3 mg/kg in rats and mice, respectively. 2, 3-Oxidosqualene cyclase (OSC) is an important enzyme in the biosynthesis of animal, plant, and fungal sterols. OSC catalyzes the conversion of (3S)-2, 3-oxidosqualene to lanosterol, a precursor to cholesterol, in mammals and fungi. Total cholesterol was reduced by 19% in normolipemic hamsters at a dose of 55 mg/kg/day for 11 days and 25% in hyperlipemic hamsters at a dose of 148 mg/kg/day for 25 days.
Targets(IC <sub>50</sub> )	Others,LDLR

## Solubility Information

Solubility	Ethanol: 0.15 mg/mL (0.39 mM),Sonication is recommended. DMSO: 2 mg/mL (5.25 mM),Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6256 mL	13.1278 mL	26.2557 mL
5 mM	0.5251 mL	2.6256 mL	5.2511 mL
10 mM	0.2626 mL	1.3128 mL	2.6256 mL
50 mM	0.0525 mL	0.2626 mL	0.5251 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Eisele, B., Budzinski, R., Müller, P., et al. Effects of a novel 2,3-oxidosqualene cyclase inhibitor on cholesterol biosynthesis and lipid metabolism in vivo. *Journal of Lipid Research* 38, 564-574 (1997).

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