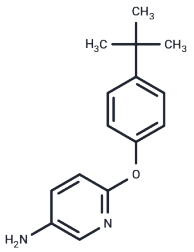
Data Sheet (Cat.No.T12246)

TargetMol

CB-103

Chemical Properties



CAS No. : 218457-67-1

Formula: C15H18N2O

Molecular Weight: 242.32

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	CB-103 is a orally active inhibitor of notch signaling pathway, with anti-tumor activity.
Targets(IC50)	Gamma-secretase
In vitro	CB-103 has shown the ability to block NOTCH signaling in human T cell acute lymphoblastic leukemia cancer cell lines, and exhibits anti-tumor efficacy in GSI resistant T-ALL cell lines[2].
In vivo	CB-103inhibits growth of GSI/Mab resistant triple negative breast cancer, andexhibits anti-tumor activity in xenograft models of human T-ALL and mouse mammary tumors [3].

Solubility Information

Solubility	DMSO: 50 mg/mL (206.34 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1268 mL	20.6339 mL	41.2677 mL
5 mM	0.8254 mL	4.1268 mL	8.2535 mL
10 mM	0.4127 mL	2.0634 mL	4.1268 mL
50 mM	0.0825 mL	0.4127 mL	0.8254 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.

Reference

Freddy Radtke, et al. Inhibitors of notch signalling pathway and use thereof in treatment of cancers. US9296682B2.
R.Lehal, et al. Development of a novel first-in-class oral inhibitor of the NOTCH pathway.
Rajwinder Lehal, et al. Non clinical pharmacology, pharmacokinetics and safety profiling of CB-103: A novel first-in-class small molecule inhibitor of the NOTCH pathway.

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