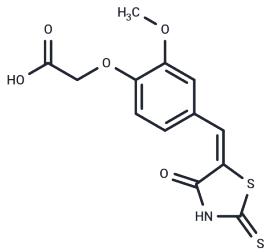
Data Sheet (Cat.No.T3540)

TargetMol

IMR-1A

Chemical Properties



CAS No. : 331862-41-0

Formula: C13H11NO5S2

Molecular Weight: 325.36

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	IMR-1A is the metabolite of IMR-1 which is a novel class of Notch inhibitors targeting the transcriptional activation with IC50 of 6 μMol/L.
Targets(IC50)	Gamma-secretase,Drug Metabolite
In vitro	IMR-1 prevents the recruitment of Maml1 to the NTC on chromatin, inhibits Notch target gene transcription, and dramatically inhibits tumor growth. A decrease in colony formation of Notch-dependent cell lines is observed upon treatment with IMR-1 when compared with the control (DMSO).
In vivo	The reference for intraperitoneal injection is 15 mg/kg. IMR-1 inhibits Notch-dependent somite development in zebrafish.

Solubility Information

Solubility	DMSO: 4.23 mg/mL (13 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0735 mL	15.3676 mL	30.7352 mL
5 mM	0.6147 mL	3.0735 mL	6.147 mL
10 mM	0.3074 mL	1.5368 mL	3.0735 mL
50 mM	0.0615 mL	0.3074 mL	0.6147 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

Astudillo L,et al. The Small Molecule IMR-1 Inhibits the Notch Transcriptional Activation Complex to Suppress Tumorigenesis. Cancer Res. 2016 Jun 15;76(12):3593-603.
Tang Y, Song H, Wang Z, et al. Repurposing antiparasitic antimonials to noncovalently rescue temperature-sensitive p53 mutations. Cell Reports. 2022, 39(2): 110622
Tang Y, Song H, Wang Z, et al.Repurposing antiparasitic antimonials to noncovalently rescue temperature-sensitive p53 mutations.Cell Reports.2022, 39(2): 110622.

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