

BIM-46174 HCl

Chemical Properties

CAS No. :

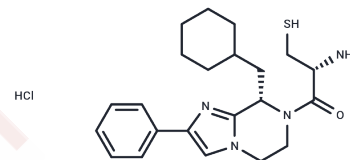
Formula: C₂₂H₃₁ClN₄O₅

Molecular Weight: 435.03

Keep away from moisture

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	BIM-46174 HCl is a selective G protein inhibitor with anticancer activity that inhibits the growth of a large number of human cancer cell lines and induces cysteine 3-dependent apoptosis.
Targets(IC50)	Apoptosis,GPCR
In vitro	BIM-46174 HCl (195450-11-4 Free base) (3, 10, 30, 100 μM) inhibits the growth of a wide range of human cancer cell lines (e.g., HL60 and NCI-H69 cells), including anticancer drug-resistant cells; BIM-46174 HCl (195450-11-4 Free base) induces caspase-3-dependent apoptosis and poly (ADP-ribose) polymerase cleavage in these cancer cells. [3]

Solubility Information

Solubility	DMSO: 22.62 mg/mL (52 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2987 mL	11.4935 mL	22.9869 mL
5 mM	0.4597 mL	2.2987 mL	4.5974 mL
10 mM	0.2299 mL	1.1493 mL	2.2987 mL
50 mM	0.046 mL	0.2299 mL	0.4597 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

Küppers J, al. BIM-46174 fragments as potential ligands of G proteins. Medchemcomm. 2019 Aug 21;10(10):1838-1843.

Gilmour AM, et al. A novel epidermal growth factor receptor-signaling platform and its targeted translation in pancreatic cancer. Cell Signal. 2013 Dec;25(12):2587-603.

Prévost GP, et al. Anticancer activity of BIM-46174, a new inhibitor of the heterotrimeric Galpha/Gbetagamma protein complex. Cancer Res. 2006 Sep 15;66(18):9227-34.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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