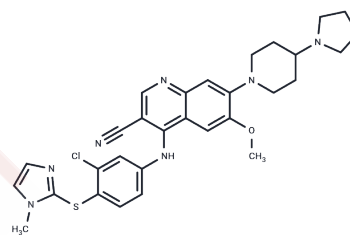


Balamapimod

Chemical Properties

CAS No. :	863029-99-6
Formula:	C ₃₀ H ₃₂ ClN ₇ O ₅
Molecular Weight:	574.14
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	Balamapimod, also known as MKI-822, is a small-molecule Ras/Raf/MEK inhibitor that directly targets deregulated MAPK signaling cascades and is being actively explored to suppress aberrant protein kinase activity implicated in oncogenic transformation, inflammatory signaling, and pathological cell proliferation, with demonstrated therapeutic relevance for stroke, osteoporosis, rheumatoid arthritis, polycystic kidney disease, colonic polyps, and other inflammation-driven disorders through pathway-level inhibition.
Targets(IC50)	Raf,MEK,Ras

Solubility Information

Solubility	DMSO: 10 mg/mL (17.42 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	1.7417 mL	8.7087 mL	17.4174 mL
5 mM	0.3483 mL	1.7417 mL	3.4835 mL
10 mM	0.1742 mL	0.8709 mL	1.7417 mL
50 mM	0.0348 mL	0.1742 mL	0.3483 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

Jose R. Conejo-Garcia, et al. Methods and compositions for treatment of metastatic and refractory cancers and tumors. US20170020964A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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