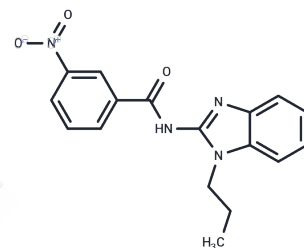


HS-243

Chemical Properties

CAS No. :	848249-10-5
Formula:	C ₁₇ H ₁₆ N ₄ O ₃
Molecular Weight:	324.33
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	HS-243 is an inhibitor of IRAK-4 and IRAK-1 with IC ₅₀ s of 20 and 24 nM. HS-243 shows anti-inflammatory and anticancer activity.
Targets(IC ₅₀)	MAPK,CDK,IRAK
In vitro	HS-243 shows minimal TAK1 (transforming growth factor β-activated kinase 1) inhibition activity, with a IC ₅₀ of 0.5 μM. HS-243 (0-10 μM) inhibits cell survival by 21% for AN3-CA pancreatic cancer cells, and 13% for SKOV-3 ovarian cancer cells. HS-243 (10 μM) potently reduces the pro-inflammatory response of RA cells and macrophages and significantly reduces the secretion of 15 cytokines, including IL-8, CD14, GRO-α, MIP-1a, MIP-3a, uPAR, Osteopontin, MMP-9, MCP-1, I-TAC, TIM-3, IP-10, GDF-15, and RANTES[1].

Solubility Information

Solubility	DMSO: 10 mg/mL (30.83 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	3.0833 mL	15.4164 mL	30.8328 mL
5 mM	0.6167 mL	3.0833 mL	6.1666 mL
10 mM	0.3083 mL	1.5416 mL	3.0833 mL
50 mM	0.0617 mL	0.3083 mL	0.6167 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

Scarneo SA, et al. A highly selective inhibitor of interleukin-1 receptor-associated kinases 1/4 (IRAK-1/4) delineates the distinct signaling roles of IRAK-1/4 and the TAK1 kinase. J Biol Chem. 2020 Feb 7;295(6):1565-1574.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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