

H1k

Chemical Properties

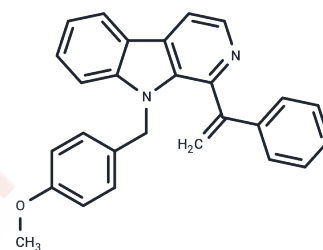
CAS No. :

Formula: C₂₇H₂₂N₂O

Molecular Weight: 390.48

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	H1k is an eudistomin Y fluorescent derivative and lysosome-targeted antiproliferative agent that dose-dependently increases autophagy signalling and down-regulates the expression of cyclin-dependent kinase (CDK1) and cyclin B1.
Targets(IC50)	CDK, Autophagy
In vitro	H1k (72 h) exhibits anti-proliferative activity against LS-180, HepG-2, SGC-7901, A549, and MDA-MB-231 cells, with IC50 values of 2.9, 9.6, 12.1, 14.8, and 20.5 μ M respectively [1]. H1k (0-50 μ M; 24 h) triggers significant G2-M arrest in MDA-MB-231 and SGC-7901 cells in a dose-dependent manner [1]. H1k (0-20 μ M; 6 h; MDA-MB-231 cells) induces autophagy to exert its anti-proliferative activity, with lysosomes being its functional target [1].

Solubility Information

Solubility	DMSO: 3.91 mg/mL (10.01 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	2.561 mL	12.8048 mL	25.6095 mL
5 mM	0.5122 mL	2.561 mL	5.1219 mL
10 mM	0.2561 mL	1.2805 mL	2.561 mL
50 mM	0.0512 mL	0.2561 mL	0.5122 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

Yang G, et al. Design, synthesis, and discovery of Eudistomin Y derivatives as lysosome-targeted antiproliferation agents. Eur J Med Chem. 2023 Mar 15;250:115193.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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