

HS-1793

Chemical Properties

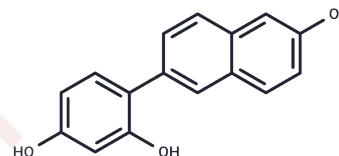
CAS No. : 927885-00-5

Formula: C₁₆H₁₂O₃

Molecular Weight: 252.26

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-1793, a resveratrol analogue, downregulates the expression of hypoxia-induced HIF-1 and VEGF and inhibits tumor growth of human breast cancer cells in a nude mouse xenograft model
Targets(IC50)	Apoptosis,Others
In vitro	HS-1793 was found to inhibit hypoxia (1.0% oxygen)-induced HIF-1 α expression at the protein level, and its inhibitory effect was more potent than that of resveratrol in MCF-7 and MDA-MB-231 breast cancer cells. Furthermore, HS-1793 reduced the secretion and mRNA expression of vascular endothelial growth factor (VEGF), a key mediator of HIF-1-driven angiogenesis, without affecting cell viability.
In vivo	HS-1793 significantly suppressed the growth of breast cancer tumor xenografts, without any apparent toxicity. Additionally, decreases in Ki-67, a proliferation index marker, and CD31, a biomarker of microvessel density, were observed in the tumor tissue. Expression of HIF-1 and VEGF was also downregulated in xenograft tumors treated with HS-1793. These in vivo results reinforce the improved anticancer activity of HS-1793 when compared with that of resveratrol. Overall, the present study suggests that the synthetic resveratrol analogue HS-1793 is a potent antitumor agent that inhibits tumor growth via the regulation of HIF-1, and demonstrates significant therapeutic potential for solid cancers.

Solubility Information

Solubility	DMSO: 22.5 mg/mL (89.19 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	3.9642 mL	19.8208 mL	39.6416 mL
5 mM	0.7928 mL	3.9642 mL	7.9283 mL
10 mM	0.3964 mL	1.9821 mL	3.9642 mL
50 mM	0.0793 mL	0.3964 mL	0.7928 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

D Kim, Sung B , Kim J A , et al. HS-1793, a resveratrol analogue, downregulates the expression of hypoxia-induced HIF-1 and VEGF and inhibits tumor growth of human breast cancer cells in a nude mouse xenograft model[J]. International Journal of Oncology, 2017.

Xu Q, Fu Q, Li Z, et al. The flavonoid procyanidin C1 has senotherapeutic activity and increases lifespan in mice. Nature Metabolism. 2021: 1-21.

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