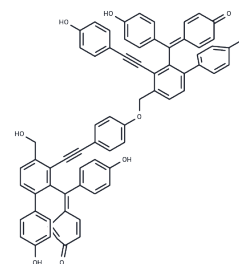


Diselaginellin B

Chemical Properties

CAS No. :	1835299-12-1
Formula:	C ₆₈ H ₄₆ O ₉
Molecular Weight:	1007.09
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	Diselaginellin B (compound 2), a natural product derived from Selaginella Pulvinata, exhibits anti-proliferative, apoptosis-inducing, and antimetastatic activities against human hepatocellular carcinoma cells [1].
Targets(IC50)	Apoptosis
In vitro	Diselaginellin B exhibits cytotoxic effects on SMMC-7721 cells at concentrations of 2.5-10 μ M, with an IC ₅₀ of 9.0 μ M, by upregulating DLD and inhibiting COX-1/2 and NNMT expression, thereby inducing apoptosis in a concentration-dependent manner [1]. At concentrations of 0.5-2 μ M, it downregulates TSPAN8 and MAGP2, suppresses angiogenesis, and reduces cancer cell metastasis and invasion [1]. Additionally, Diselaginellin B causes G1 phase cell cycle arrest at 2.5-5 μ M [1]. In a cell invasion assay with the SMMC-7721 cell line, concentrations of 0.5-2 μ M over 48 hours resulted in a dose-dependent reduction in cancer cell migration and invasion. Using Real Time qPCR on the SMMC-7721 cell line with a concentration of 8 μ M over 3 days, DLD was upregulated while expressions of COX-1/2, NNMT, TSPAN8, and MAGP2 were decreased [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.993 mL	4.9648 mL	9.9296 mL
5 mM	0.1986 mL	0.993 mL	1.9859 mL
10 mM	0.0993 mL	0.4965 mL	0.993 mL
50 mM	0.0199 mL	0.0993 mL	0.1986 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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