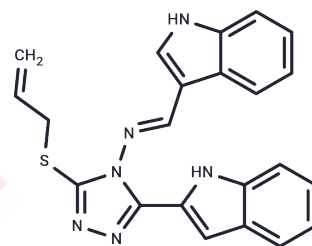


VEGFR2-IN-1

Chemical Properties

CAS No. :	2765224-55-1
Formula:	C ₂₂ H ₁₈ N ₆ S
Molecular Weight:	398.48
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	VEGFR2-IN-1 is a selective and potent VEGFR2 inhibitor with antitumor activity that inhibits cell proliferation and migration and can be used in the study of breast cancer.
Targets(IC50)	VEGFR
In vitro	VEGFR2-IN-1 (0.1,1,10,100µM ; 48 h) were effective selective inhibitors of MCF-7, Mda-Mb-231 and MCF-10A : MCF-7 (IC50 = 1.18 µM), MDA-MB-231 (IC50 = 10.49 µM), MCF-10A (IC50 = 24.76 µM)[1].
In vivo	In Male Swiss albino mice, 21-28 g (Xenograft model), VEGFR2-IN-1 (4.2 mg/kg; i.p.; once a days ; 7 days) Showed anticancer activity by having a tumor inhibition ratio of 54.2 % [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5095 mL	12.5477 mL	25.0954 mL
5 mM	0.5019 mL	2.5095 mL	5.0191 mL
10 mM	0.251 mL	1.2548 mL	2.5095 mL
50 mM	0.0502 mL	0.251 mL	0.5019 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

Nafie MS, et al. Exploration of novel VEGFR2 tyrosine kinase inhibitors via design and synthesis of new alkylated indolyl-triazole Schiff bases for targeting breast cancer. *Bioorg Chem.* 2022; 122:105708.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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