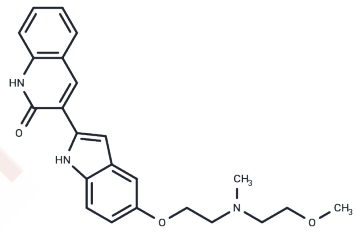
Data Sheet (Cat.No.T10123)

TargetMol

VEGFR-2-IN-9

Chemical Properties



CAS No. : 408502-06-7

Formula: C23H25N3O3

Molecular Weight: 391.46

Storage: Store at low temperature
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	VEGFR-2-IN-9 (KDR-in-4) is a potent KDR/VEGFR2 inhibitor with an IC50 of 7 nM, suitable for breast cancer research.
Targets(IC50)	VEGFR
In vitro	One of the human tyrosine kinases with a high affinity for vascular endothelial growth factor (VEGF) is KDR (kinase insert domain-containing receptor), believed to be a primary mediator of tumor-induced angiogenesis[2].
In vivo	KDR-in-4, at doses of 100 mg/kg, results in a 98% reduction in lesion size in the rat choroidal neovascularization (CNV) model, demonstrating potential utility for the treatment of various ocular neovascular diseases through a convenient oral dosing regimen. In the laser CNV and rat oxygen-induced retinopathy (OIR) models, 30 mg/kg doses of KDR-in-4 exhibit reductions in lesion size of 70% and 80%, respectively[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5545 mL	12.7727 mL	25.5454 mL
5 mM	0.5109 mL	2.5545 mL	5.1091 mL
10 mM	0.2555 mL	1.2773 mL	2.5545 mL
50 mM	0.0511 mL	0.2555 mL	0.5109 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

Kinose F, et al. Inhibition of retinal and choroidal neovascularization by a novel KDR kinase inhibitor. Molecular Vision 2005; 11:366-373

Fang YQ, et al. Efficient syntheses of KDR kinase inhibitors using a Pd-catalyzed tandem C-N/Suzuki coupling as the key step. J Org Chem. 2007 Feb 16;72(4):1341-6.

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