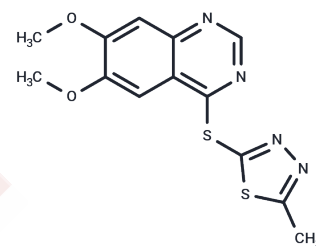


SKLB1002

## Chemical Properties

CAS No. : 1225451-84-2  
 Formula: C<sub>13</sub>H<sub>12</sub>N<sub>4</sub>O<sub>2</sub>S<sub>2</sub>  
 Molecular Weight: 320.39  
 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	SKLB1002 is a potent and ATP-competitive VEGFR2 inhibitor with IC <sub>50</sub> of 32 nM.
Targets(IC <sub>50</sub> )	VEGFR
In vitro	SKLB1002 significantly inhibited human umbilical vein endothelial cell proliferation, migration, invasion, and lumen formation by inhibiting VEGF-induced phosphorylation of VEGFR2 kinase and downstream protein kinases, including ERK, FAK, and Src. SKLB1002 significantly reduced cytotoxicity of L-02 in normal human cells.
In vivo	SKLB1002 significantly inhibited human umbilical vein endothelial cell proliferation, migration, invasion, and lumen formation by inhibiting VEGF-induced phosphorylation of VEGFR2 kinase and downstream protein kinases, including ERK, FAK, and Src. SKLB1002 significantly reduced cytotoxicity of L-02 in normal human cells.
Kinase Assay	Kinase inhibition assays : Kinase inhibition is measured by the use of radiometric assays conducted by Kinase Profiler service. Briefly, in the presence or absence of SKLB1002, VEGFR2 (5-10 mU) is incubated in 25-μL reaction solution containing 8 mmol/L 3-(N-morpholino)propanesulfonic acid (MOPS), pH 7.0, 0.2 mmol/L EDTA, 0.33 mg/mL myelin basic protein, 10 mmol/L Mg acetate, and γ-[ <sup>33</sup> P]ATP. After incubation for 40 minutes at room temperature, the reaction is stopped and 10 μL of the reaction solution is then spotted onto a P30 filtermat and washed 3 times for 5 minutes in 75 mmol/L phosphoric acid and once in methanol prior to scintillation counting.
Cell Research	Cell proliferation is measured using MTT assay. Various cells including HUVECs, L-02, B16-F10, HepG2, and SW620 are treated with indicated concentrations of SKLB1002 for 24 hours. Vandetanib and sunitinib serve as positive controls. Each assay is replicated 3 times.(Only for Reference)

## Solubility Information

Solubility	DMSO: 1 mg/mL (3.12 mM),Sonication is recommended. H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.1212 mL	15.606 mL	31.212 mL
5 mM	0.6242 mL	3.1212 mL	6.2424 mL
10 mM	0.3121 mL	1.5606 mL	3.1212 mL
50 mM	0.0624 mL	0.3121 mL	0.6242 mL

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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

Zhang S, et al. Clin Cancer Res. 2011, 17(13), 4439-4450.

Nie W, et al. 2012. Doi 10.1007/s10238-012-0225-2.

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