



## SKLB1002

|                    |                             |
|--------------------|-----------------------------|
| <b>Cat. No.:</b>   | OB0225WX-2676               |
| <b>Appearance:</b> | Solid                       |
| <b>Purity:</b>     | ≥99%                        |
| <b>Identity:</b>   | Confirmed by NMR, and HPLC. |
| <b>Size:</b>       | 5 mg; 25 mg; 100 mg; 1 g    |

This product is for research use only and is not intended for diagnostic use.

### Product Overview

|                       |                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>    | SKLB1002 is an ATP-competitive antagonist specifically targeting VEGFR2, demonstrating a potent inhibitory concentration (IC <sub>50</sub> ) of 32 nM.                                                                                                                                                                                                                          |
| <b>Synonym</b>        | 1225451-84-2; 2-((6,7-Dimethoxyquinazolin-4-yl)thio)-5-methyl-1,3,4-thiadiazole; 2-(6,7-dimethoxyquinazolin-4-yl)sulfanyl-5-methyl-1,3,4-thiadiazole; 6,7-dimethoxy-4-[(5-methyl-1,3,4-thiadiazol-2-yl)sulfanyl]quinazoline; 2-[(6,7-Dimethoxyquinazolin-4-yl)thio]-5-methyl-1,3,4-thiadiazole; MFCD27938707; 6,7-Dimethoxy-4-[(5-methyl-1,3,4-thiadiazol-2-yl)thio]quinazoline |
| <b>CAS No.</b>        | 1225451-84-2                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Compound CID</b>   | 71461003                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Formula</b>        | C <sub>13</sub> H <sub>12</sub> N <sub>4</sub> O <sub>2</sub> S <sub>2</sub>                                                                                                                                                                                                                                                                                                    |
| <b>Formula Weight</b> | 320.39                                                                                                                                                                                                                                                                                                                                                                          |

### Specification

|                      |                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------|
| <b>IUPAC Name</b>    | 2-(6,7-Dimethoxyquinazolin-4-yl)sulfanyl-5-methyl-1,3,4-thiadiazole                             |
| <b>InChI</b>         | InChI=1S/C13H12N4O2S2/c1-7-16-17-13(20-7)21-12-8-4-10(18-2)11(19-3)5-9(8)14-6-15-12/h4-6H,1-3H3 |
| <b>InChI Key</b>     | RQVGFDBMONQTBC-UHFFFAOYSA-N                                                                     |
| <b>SMILES string</b> | CC1=NN=C(S1)SC2=NC=NC3=CC(=C(C=C32)OC)OC                                                        |
| <b>Stability</b>     | 3 years in powder form.                                                                         |
| <b>Storage</b>       | Storage at -20°C.                                                                               |



## Applications

SKLB1002 is applied in vascular biology as a potent VEGFR2 inhibitor to investigate the inhibition of endothelial cell migration and the suppression of tumor-induced angiogenesis.

## Library Information

|                            |                         |
|----------------------------|-------------------------|
| <b>Target</b>              | VEGFR                   |
| <b>Receptor</b>            | VEGFR2                  |
| <b>Pathways</b>            | Protein tyrosine kinase |
| <b>Plate Number</b>        | L6700-08                |
| <b>Empty Location</b>      | a1-h1; a12-h12          |
| <b>Container</b>           | 96-well plate           |
| <b>Formulation</b>         | 10mM DMSO               |
| <b>DMSO Max Solubility</b> | 7 mg/mL; 21.85 mM       |
| <b>ALogP</b>               | 2.747                   |
| <b>HBA_Count</b>           | 6                       |
| <b>HBD_Count</b>           | 0                       |
| <b>Rotatable Bond</b>      | 4                       |