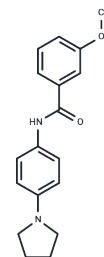


SBI-183

## Chemical Properties

CAS No. : 625403-59-0  
 Formula: C<sub>18</sub>H<sub>20</sub>N<sub>2</sub>O<sub>2</sub>  
 Molecular Weight: 296.36  
 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	SBI-183 is an orally active QSOX1 inhibitor (K <sub>d</sub> : 20 μM). It can inhibit the proliferation and invasion phenotypes of renal carcinoma cell lines, triple-negative breast cancer cell lines, lung adenocarcinoma cell lines, and pancreatic ductal adenocarcinoma. In vivo, SBI-183 suppresses tumor growth in two human renal cell carcinoma xenograft mouse models.
Targets(IC50)	Others
In vitro	SBI-183, administered in concentrations ranging from 6.25 to 50 μmol/L for 15 minutes, inhibits rQSOX1 enzymatic activity in a dose-dependent manner. This compound suppresses the proliferation of tumor cells without affecting fibroblasts or rapidly proliferating PBMCs, at doses of 0.625 to 20 μmol/L over 5 days. It reduces the viability of 786-O, RCJ-41T2, and MDA-MB-231 cells, with IC <sub>50</sub> values of 4.6 μM, 3.9 μM, and 2.4 μM, respectively, within a concentration range of 0.076 nM to 40 μM for 72 hours. Additionally, SBI-183, at doses of 2.5 to 20 μM over 4 to 8 days, inhibits tumor invasion in both two-dimensional and three-dimensional models of 786-O, RCJ-41T2, MDA-MB-231, A549, and MIA PaCa2 cells in a dose-dependent manner.
In vivo	SBI-183 effectively inhibits tumor growth in two human renal cell carcinoma xenograft mouse models, with dosages of 400 μg/mouse/day administered orally for 35 days in the 786-O model, and 100 mg/kg for 21 days in the RCJ-41T2 model.

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.3743 mL	16.8714 mL	33.7427 mL
5 mM	0.6749 mL	3.3743 mL	6.7485 mL
10 mM	0.3374 mL	1.6871 mL	3.3743 mL
50 mM	0.0675 mL	0.3374 mL	0.6749 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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