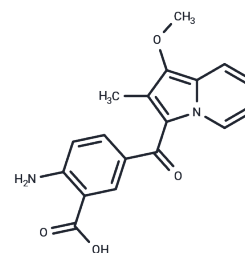


## SSR128129E free acid

## Chemical Properties

CAS No. :	848463-13-8
Formula:	C <sub>18</sub> H <sub>16</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	324.33
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	SSR128129E (free acid) is an orally available, allosteric inhibitor of FGFR, with an IC <sub>50</sub> of 1.9 μM for FGFR1.
Targets(IC <sub>50</sub> )	FGFR
In vitro	FGF2-induced EC proliferation(IC <sub>50</sub> : 31±1.6 nM) inhibited by SSR128129E, migration with an IC <sub>50</sub> of 15.2±4.5 nM, and lamellipodia formation in a dose dependent manner. SSR128129E inhibits responses mediated by FGFR1-4. SSR128129E blocks EC migration in response to FGF1, a ligand of FGFR1 and FGFR4, and capillary tube formation in response to FGF19, a ligand of FGFR4. Proliferation and migration of the murine pancreatic Panc02 tumor cell line in response to FGF7 are also blocked by SSR128129E, showing that SSR128129E inhibits FGFR subtypes of other species as well.
In vivo	Oral delivery of SSR128129E (30 mg/kg/day, from day 3) inhibits the growth of orthotopic Panc02 tumors by 44% and delays the growth of Lewis lung carcinoma. Administering SSR128129E orally (30 mg/kg/day, from day 5) reduces tumor size and weight by 53% and 40%, respectively. SSR128129E also inhibits the growth of subcutaneous CT26 colon tumors by 34% and the multidrug-resistant MCF7/ADR breast cancer xenograft model by 40%. Additionally, the compound reduces tumor invasiveness and metastasis of Panc02 tumor cells to peritoneal lymph nodes.

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.0833 mL	15.4164 mL	30.8328 mL
5 mM	0.6167 mL	3.0833 mL	6.1666 mL
10 mM	0.3083 mL	1.5416 mL	3.0833 mL
50 mM	0.0617 mL	0.3083 mL	0.6167 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

Bono F, et al. Inhibition of tumor angiogenesis and growth by a small-molecule multi-FGF receptor blocker with allosteric properties. *Cancer Cell*. 2013 Apr 15;23(4):477-88.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481