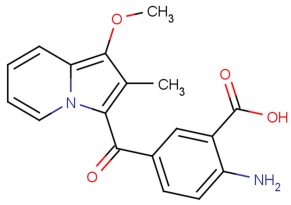
Data Sheet (Cat.No.T13003)

SSR128129E free acid

Chemical Properties



CAS No.:	848463-13-8
Formula:	C18H16N2O4
Molecular Weight:	324.33
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	SSR128129E free acid is an orally available and allosteric inhibitor of FGFR(IC50 of 1.9 μM for FGFR1).
Targets(IC_{50})	FGFR1: 1.9 μM
In vitro	FGF2-induced EC proliferation(IC50 : 31±1.6 nM) inhibited by SSR128129E, migration with an IC50 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	growth of orthotopic Panc02 tumors by 44% and delays growth of Lewis lung carcinomainhibited by Oral delivery of SSR128129E (30 mg/kg/day, from day 3) . oral SSR128129E (30 mg/kg/day, from day 5) reduces tumor size and weight by 53% and 40%, respectively. SSR128129E inhibits the growth of subcutaneous CT26 colon tumors by 34% and of the multidrug resistant MCF7/ADR breast cancer xenograft model by 40%. tumor invasiveness and metastasis of Panc02 tumor cells to peritoneal lymph nodes reduced by SSR128129E .

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.083 mL	15.416 mL	30.833 mL
5 mM	0.617 mL	3.083 mL	6.167 mL
10 mM	0.308 mL	1.542 mL	3.083 mL
50 mM	0.062 mL	0.308 mL	0.617 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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.

Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481