Product Data Sheet

Product Name: SSR128129E free acid
Cat. No.: GC37679

Chemical Properties

Cas. No.	848463-13-8		
SMILES	COC1=C2N(C(C(C3=CC=C(N)C(C(O)=O)=C3)=O)=C1C)C=CC=C2		
Formula	$C_{18}H_{16}N_2O_4$	M.Wt	324.33
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	SSR128129E free acid		

Background

SSR 128129E is a potent inhibitor of the FGF receptor (FGFR; IC_{50} = 1.9 nM).[1] It reduces FGF2-induced endothelial cell proliferation and migration (IC_{50}s = 31 and 15.2 nM, respectively), as well as lamellipodia formation *in vitro*. SSR 128129E also reduces proliferation of PAE cells expressing FGFR1, mPanc02 cells expressing FGFR2, hB9 myeloma cells expressing FGFR3, and HUVECs expressing FGFR4 when used at a concentration of 100 nM. *In vivo*, SSR 128129E (30 mg/kg per day) reduces limb swelling, redness, and deformity and improves performance in an exercise endurance test in a mouse model of arthritis. It reduces tumor growth and metastasis and enhances antitumor activity of the VEGF receptor (VEGFR) antibody αVEGFR2 in a Panc02 mouse orthotopic tumor model. SSR 128129E (50 mg/kg per day) reduces atherosclerotic lesion size in the aortic sinus of $apoE^{-/-}$ mice.[2] It also reduces intimal hyperplasia following jugular vein-to-artery bypass grafting surgery in rats.[3]

1.Bono, F., De Smet, F., Herbert, C.A., et al.Inhibition of tumor angiogenesis and growth by a small-molecule multi-FGF receptor blocker with allosteric propertiesCancer Cell23(4)477-488(2013) 2.Dol-Gleizes, F., Delesque-Touchard, N., Marés, A.M., et al.A

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new synthetic FGF receptor antagonist inhibits arteriosclerosis in a mouse vein graft model and atherosclerosis in apolipoprotein E-deficient micePLoS One8(11)e80027(2013) 3.Huang, Q.-X., Liang, L.-D., Lan, Z.-C., et al.Effects of ssr128,129e on intimal hyperplasia in autogenous vein grafts of ratsShiyong Yixue Zazhi31(2)188-190(2015)

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