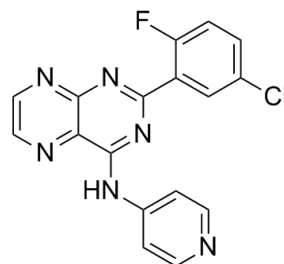


Product Name : SD-208
Synonyms : SD 208; SD208
Cat No. : M15373
CAS Number : 627536-09-8
Molecular Formula : C₁₇H₁₀ClFN₆
Formula Weight : 352.75
Chemical Name : 4-Pteridinamine, 2-(5-chloro-2-fluorophenyl)-N-4-pyridinyl-



Description : SD-208 is a potent, selective TGF- β receptor I kinase (TGF- β RI) inhibitor with IC₅₀ of 48 nM, >100-fold selectivity over TGF- β RII kinase and >20-fold over a panel of related protein kinases; inhibits the growth inhibition of TGF-beta-sensitive CCL64 cells mediated by recombinant TGF- β 1 or TGF- β 2 or of TGF- β -containing glioma cell supernatant with EC₅₀ of 0.1 μ M; inhibits constitutive and TGF- β -induced invasion of glioma cells, inhibits TGF- β signaling in immune effector cells; blocks TGF- β signaling in the brain and inhibits the growth of syngeneic SMA-560 experimental gliomas in vivo.

Pathway : TGF-beta/Smad

Target : TGFBR

Receptor : TGF- β RI(ALK5)

Solubility : 10 mM in DMSO

SMILES : FC1=CC=C(C(Cl)C=C1C2=NC(NC3=CC=NC=C3)=C4N=CC=NC4=N2

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Uhl M, et al. Cancer Res. 2004 Nov 1;64(21):7954-61.| 2. Bonniaud P, et al. Am J Respir Crit Care Med. 2005 Apr 15;171(8):889-98.| 3. Zhou L, et al. Blood. 2008 Oct 15;112(8):3434-43.| 4. Hayashi T, et al. Clin Cancer Res. 2004 Nov 15;10(22):7540-6.