

GW788388

Catalog No: tcsc0254



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:	452342-67-5
Formula:	$C_{25}H_{23}N_5O_2$
Pathway:	TGF-beta/Smad
Target:	TGF-β Receptor
Form:	White to gray (Solid)
Purity / Grade:	97.61%
Solubility:	DMSO : ≥ 48 mg/mL (112.81 mM)
Storage Instruction:	Storage temp. 2-8°C
Observed Molecular Weight:	425.48

Product Description

GW788388 is a potent and selective inhibitor of ALK5 with IC50 of 18 nM, and also inhibits TGF-β type II receptor and activin type II receptor activities, without inhibiting BMP type II receptor. IC50 & Target: IC50: 18 nM (ALK5) In Vivo: GW788388 given orally for 5 weeks significantly reduces renal fibrosis and decreased the mRNA levels of key mediators of extracellular matrix deposition in kidneys in db/db mice[1]. GW788388 (50 mg/kg/day, p.o.) significantly attenuates systolic dysfunction in the MI animals, together with the attenuation of the activated (phosphorylated) Smad2 (P < 0.01), α-smooth muscle actin (P < 0.001), and collagen I (P < 0.05) in the noninfarct zone of MI rats[2]. Gw788388 reduces the expression of collagen IA1 by 80% at a dose of 1 mg/kg twice a day (b.i.d.). Gw788388 significantly reduces the expression of collagen IA1 mRNA when administered orally at 10 mg/kg once a day (u.i.d.) in a model of puromycin aminonucleoside-induced renal fibrosis[3].

