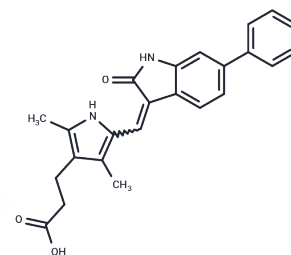


SU16f

Chemical Properties

CAS No. : 251356-45-3
 Formula: C₂₄H₂₂N₂O₃
 Molecular Weight: 386.44
 Storage: Store at low temperature
 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	SU16f (3-substituted indolin-2-one 16f) is a potent and selective PDGFR β inhibitor (IC ₅₀ s: 10 nM, 140 nM, 2.29 μ M for PDGFR β , PDGFR1, PDGFR2, respectively). Neutralization of PDGFR β receptor by SU16f blocks the promoting role of GC-MSCs conditioned medium in gastric cancer cell proliferation and migration.
Targets(IC ₅₀)	PDGFR
In vitro	SU16f (20 μ M; for 8 hours) significantly abolishes PDGFR β activation in SGC-7901 by GC-MSC-CM, inhibits GC-MSC-CM-promoted cell proliferation, downregulates p-AKT, Bcl-xl, and Bcl-2 levels, upregulates Bax expression, and modulates E-cadherin, N-cadherin, Vimentin, and α -SMA levels in SGC-7901 cells [1].

Solubility Information

Solubility	DMSO: 25 mg/mL (64.69 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5877 mL	12.9386 mL	25.8772 mL
5 mM	0.5175 mL	2.5877 mL	5.1754 mL
10 mM	0.2588 mL	1.2939 mL	2.5877 mL
50 mM	0.0518 mL	0.2588 mL	0.5175 mL

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

Sun L, et al. Design, synthesis, and evaluations of substituted 3-[(3- or 4-carboxyethylpyrrol-2-yl)methylidanyl]indolin-2-ones as inhibitors of VEGF, FGF, and PDGF receptor tyrosine kinases. J Med Chem. 1999 Dec 16;42(25): 5120-30.

Huang F, et al. Gastric cancer-derived MSC-secreted PDGF-DD promotes gastric cancer progression. J Cancer Res Clin Oncol. 2014 Nov;140(11):1835-48.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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