SU16f

Cat. No.:	HY-108628		
CAS No.:	251356-45-	3	
Molecular Formula:	$C_{24}H_{22}N_{2}O_{3}$		
Molecular Weight:	386.44		
Target:	PDGFR		
Pathway:	Protein Tyr	osine Kin	ase/RTK
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

	Mass Solvent Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutio	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

DIOLOGICALACTIV			
Description	SU16f is a potent and selectiv respectively ^[1] . Neutralizatior mesenchymal stem cells) con	e PDGFRβ inhibitor with IC ₅₀ s of α of PDGFRβ receptor by SU16f bl ditioned medium in gastric canc	10 nM, 140 nM, 2.29 μ M for PDGFR β , PDGFR1, PDGFR2, ocks the promoting role of GC-MSCs (gastric cancer-derived er cell proliferation and migration ^[2] .
IC ₅₀ & Target	PDGFRβ 10 nM (IC ₅₀)	PDGFR2 140 nM (IC ₅₀)	PDGFR1 2.29 μΜ (IC ₅₀)
In Vitro	SU16f (20 μM; for 8 hours) pre SU16f (20 μM; for 8 hours) sign in the upregulation of E-cadh downregulation of p-AKT, Bcl MCE has not independently co Cell Proliferation Assay ^[1] Cell Line:	treatment inhibits the promoting nificantly abolishes PDGFRβ activ erin and downregulation of N-ca -xl, and Bcl-2 levels and upregula onfirmed the accuracy of these m SGC-7901 cells in GC-MSC/SGC	g role of GC-MSC-CM in SGC-7901 cell proliferation ^[1] . vation in SGC-7901 by GC-MSC-CM. SU16f pretreatment results dherin, Vimentin, and α -SMA. SU16f pretreatment leads to ation of Bax expression in SGC-7901 cells by GC-MSC-CM ^[1] . nethods. They are for reference only.

Product Data Sheet

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Concentration:	20 μΜ
Incubation Time:	8 hours
Result:	Inhibited the promoting role of GC-MSC-CM in SGC-7901 cell proliferation.
Western Blot Analysis ^[1]	
Cell Line:	SGC-7901 cells
Concentration:	20 μΜ
Incubation Time:	8 hours
Result:	Significantly abolished PDGFRβ activation in SGC-7901 by GC-MSC-CM, and resulte upregulation of E-cadherin and downregulation of N-cadherin. Vimentin, and α-SN

REFERENCES

[1]. 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.

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

Caution: Product has not been fully validated for medical applications. For research use only.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA