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DATASHEET

SU 5402

Product overview

Name	SU 5402
Cat No	HB3133
Biological action	Inhibitor
Purity	>95%
Description	Potent FGFR and VEGFR inhibitor. Attenuates integrin β4-induced neural stem cell differentiation.

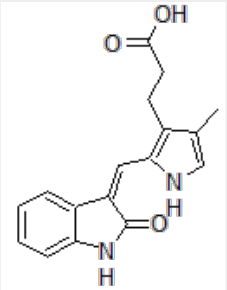
Biological Data

Biological description	Potent FGFR and VEGFR inhibitor (IC_{50} values are 0.02, 0.03, 0.51 and >100 μM at VEGFR2, FGFR1, PDGFRβ and EGFR respectively). Attenuates integrin β4-induced neural stem cell differentiation. Shows potent *in vitro* and *in vivo* anticancer activity.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in DMSO (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	2-[(1,2-Dihydro-2-oxo-3*H*-indol-3-yl idene)methyl]-4-methyl-1*H*-pyrrole-3-propanoic acid
Molecular Weight	296.32
Chemical structure	
Molecular Formula	$C_{17}H_{16}N_2O_3$
CAS Number	215543-92-3
PubChem identifier	5289418
SMILES	Cc1c[nH]c(c1CCC(=O)O)/C=C2/c3ccccc3NC2=O
InChi	InChI=1S/C17H16N2O3/c1-10-9-18-15(11(10)6-7-16(20)21)8-13-12-4-2-3-5-14(12)19-17(13)22/h2-5,8-9,18H,6-7H2,1H3,(H,19,22)(H,20,21)/b13-8-
InChiKey	JNDVEAXZWJIOKB-JYRVWZFOSA-N
MDL number	MFCD08235144
Appearance	Light orange to dark orange

References

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.

Sun et al (1999) J Med Chem 42(25)
PubMedID 10602697

Neural stem cell differentiation is mediated by integrin beta4 in vitro.

Su et al (2009) Int J Biochem Cell Biol 41(4)
PubMedID 18834954

Rapid and efficient directed differentiation of human pluripotent stem cells into retinal pigmented epithelium.

Buchholz et al (2013) Stem Cells Transl Med 2(5)
PubMedID 23599499