

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com



DATASHEET

SU 5402

Product overview

Name	SU 5402
Cat No	HB3133
Biological action	Inhibitor
Purity	>95%
Description	Potent FGFR and VEGFR inhibitor. Attenuates integrin β 4-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 $>100 \mu M$ at VEGFR2, FGFR1, PDGFR β and EGFR respectively). Attenuates integrin β 4-induced neural stem cell differentiation. Shows potent <i>in vitro</i> and <i>in vivo</i> anticancer activity.
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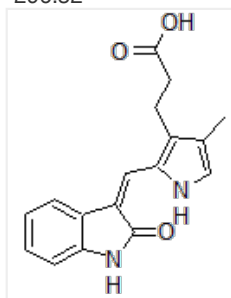
Solubility & Handling

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 <i>H</i> -indol-3-yl]idene)methyl]-4-methyl-1 <i>H</i> -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	<chem>Cc1c[nH]c(c1CCC(=O)O)/C=C2/c3cccc3NC2=O</chem>
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-JNDVEAXZWJIOKB-JYRVWZFOSA-N
InChiKey	MFCD08235144
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](#)
