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DATASHEET

SB 202190

Product overview

Name	SB 202190
Cat No	HB1301
Alternative names	SB-202190
Biological action	Inhibitor
Purity	>99%
Description	Potent ATP competitive p38 MAPK inhibitor. 3D growth matrix component, promotes long-term organoid growth and can be used in production of gastric organoids. Promotes stability of human pluripotent stem cells.

Images

Biological Data

Biological description

Potent ATP competitive p38 MAPK inhibitor (IC_{50} values are 50 and 100 nM for p38α and p38β respectively).

It inhibits TNF, IL-1 and CK1 (approx IC_{50} = 0.6 μM) and therefore inhibits CREB phosphorylation. It exhibits little or no activity at CK2.

It displays anti-inflammatory properties and induces apoptosis.

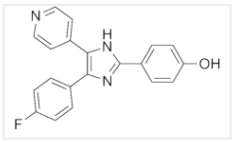
It can also be used as a 3D growth matrix component, promotes long-term organoid growth and can be used in production of gastric organoids.

Also promotes stability of human pluripotent stem cells.

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	4-[4-(4-Fluorophenyl)-5-(4-pyridiny l)-1*H*-imidazol-2-yl]phenol
Molecular Weight	331.35
Chemical structure	
Molecular Formula	$C_{20}H_{14}N_3OF$
CAS Number	152121-30-7
PubChem identifier	16759148
SMILES	OC1=CC=C(C=C1)C1=NC(=C(N1)C1=CC=NC=C1)C1=CC=C(F)C=C1
InChiKey	YKRNPHOBDOUQTG-UHFFFAOYSA-N

References

Non-specific in vivo inhibition of CK1 by the pyridinyl imidazole p38 inhibitors SB 203580 and SB 202190.

Shanware NP *et al* (2009) BMB Rep 42(3)
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Specificity and mechanism of action of some commonly used protein kinase inhibitors.

Davies SP *et al* (2000) Biochem J 351(Pt 1)
PubMedID 10998351

Induction of apoptosis by SB202190 through inhibition of p38beta mitogen-activated protein kinase.

Nemoto S *et al* (1998) J Biol Chem 273(26)
PubMedID 9632706