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DATASHEET

KN-62

Product overview

Name	KN-62
Cat No	HB0359
Biological action	Inhibitor
Purity	>98%
Description	Selective CaM kinase II inhibitor. $P2X_7$ receptor antagonist.

Images

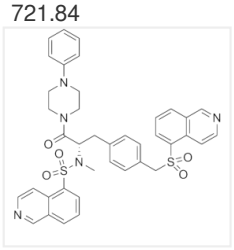
Biological Data

Biological description	Selective CaM kinase II inhibitor (IC_{50} = 500 nM). Also potent, non-competitive $P2X_7$ receptor antagonist (IC_{50} = 15 nM). Also inhibits GSK3β, PRAK and MAPKAP-K2. Cell-permeable, potential anticancer actions through suppression of HIF-1α.

Solubility & Handling

Storage instructions	-20°C (desiccate)
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-[(2*S*)-2-[(5-isoquinolinylsulfonyl)methylamino]-3-oxo-3-(4-phenyl-1-piperazinyl)propyl] phenyl isoquinolinesulfonic acid ester
Molecular Weight	721.84
Chemical structure	

Molecular Formula	$C_{38}H_{35}N_5O_6S_2$
CAS Number	127191-97-3
PubChem identifier	5312126
SMILES	CN([C@@H](CC1=CC=C(C=C1)OS(=O)(=O)C2=CC=CC3=C2C=CN=C3)C(=O)N4CCN(CC4)C5=CC=CC=C5)S(=O)(=O)C6=CC=CC7=C6C=CN=C7
InChiKey	RJVLFQBBRSMWHX-DHUJRADRSA-N

References

Specificity and mechanism of action of some commonly used protein kinase inhibitors.

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

Effects of antagonists at the human recombinant P2X7 receptor.

Chessell IP *et al* (1998) Br J Pharmacol 124(6)
PubMedID 9720806

KN-62, 1-[N,O-bis(5-isoquinolinesulfonyl)-N-methyl-L-tyrosyl]-4-phenylpiperazi ne, a specific inhibitor of Ca2+/calmodulin-dependent protein kinase II.

Tokumitsu H *et al* (1990) J Biol Chem 265(8)
PubMedID 2155222