

Product Information

KN-62

Cat. No.: X23-12-YM122

Size: 5 mg; 10 mg; 25 mg; 50 mg

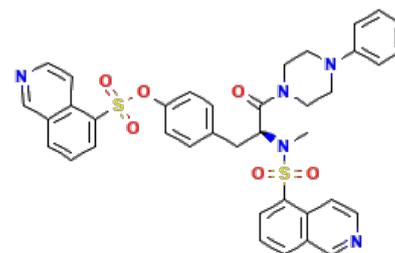
CAS Number: 127191-97-3

PubChem CID: 5312126

Synonym: 127191-97-3;

(S)-4-(2-(N

-Methylisoquinoline-5-sulfonamido)-3-oxo-3-(4-phenylpiperazin-1-yl)propyl)phenyl
isoquinoline-5-sulfonate



This product is for research use only and is not intended for diagnostic use.

Product Information

Description	KN-62, soluble in DMSO and insoluble in water and ethanol, interferes with or suppresses the transmission of signals between neurons in the nervous system. It targets CaMKII.
Molecular Weight	721.8
Molecular Formula	C ₃₈ H ₃₅ N ₅ O ₆ S ₂
Targets	CaMKII: 0.9 μM
IUPAC Name	[4-[(2S)-2-[Isoquinolin-5-ylsulfonyl(methyl)amino]-3-oxo-3-(4-phenylpiperazin-1-yl)propyl]phenyl]isoquinoline-5-sulfonate
InChI	InChI=1S/C38H35N5O6S2/c1-41(50(45, 46)36-11-5-7-29-26-39-19-17-33(29)36)35(38(44)43-23-21-42(22-24-43)31-9-3-2-4-10-31)25-28-13-15-32(16-14-28)49-51(47, 48)37-12-6-8-30-27-40-20-18-34(30)37/h2-20, 26-27, 35H, 21-25H2, 1H3/t35-/m0/s1
InChI Key	RJVLFQBBSMWHX-DHUJRADRSA-N
Canonical SMILES	CN(C(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
Isomeric 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
Form	Lyophilized powder
Purity	>98%
Solubility	DMSO: 96 mg/mL (132.99 mM); Water: insoluble; Ethanol: insoluble
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.



Applications

KN-62 can be used in research to elucidate the role of CaMKII in different physiological and pathological conditions.

Storage

Store at -20°C, and keep desiccated.
