

Product Information

KN-93 phosphate

Cat. No.: X23-12-YM216

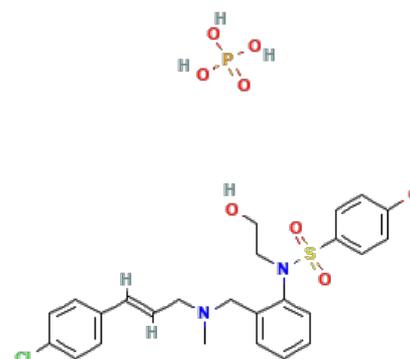
Size: 10 mg; 25 mg; 50 mg; 100 mg

CAS Number: 1188890-41-6

PubChem CID: 16760530

Synonym: 1188890-41-6; KN93

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



Product Information

Description	KN-93 phosphate, soluble in DMSO and water, and insoluble in ethanol, interferes with or suppresses the transmission of signals between neurons in the nervous system. It targets aMKII.
Molecular Weight	599.03
Molecular Formula	C ₂₆ H ₃₂ ClN ₂ O ₈ PS
Targets	aMKII: 0.37 μM
IUPAC Name	<i>N</i> -[2-[[[(<i>E</i>)-3-(4-Chlorophenyl)prop-2-enyl]-methylamino]methyl]phenyl]- <i>N</i> -(2-hydroxyethyl)-4-methoxybenzenesulfonamide;phosphoric acid
InChI	InChI=1S/C26H29ClN2O4S.H3O4P/c1-28(17-5-6-21-9-11-23(27)12-10-21)20-22-7-3-4-8-26(22)29(18-19-30)34(31, 32)25-15-13-24(33-2)14-16-25;1-5(2, 3)4/h3-16, 30H, 17-20H2, 1-2H3;(H3, 1, 2, 3, 4)/b6-5+;
InChI Key	NNKJTPOXLILMB-IPZCTEOASA-N
Canonical SMILES	CN(CC=CC1=CC=C(C=C1)Cl)CC2=CC=CC=C2N(CCO)S(=O)(=O)C3=CC=C(C=C3)OC.OP(=O)(O)O
Isomeric SMILES	CN(C/C=C/C1=CC=C(C=C1)Cl)CC2=CC=CC=C2N(CCO)S(=O)(=O)C3=CC=C(C=C3)OC.OP(=O)(O)O
Form	Lyophilized powder
Purity	>98%
Solubility	DMSO: 86 mg/mL (143.56 mM); Water: 79 mg/mL (131.88 mM); Ethanol: insoluble
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.



Applications

KN-93 phosphate can be studied to elucidate the roles of CaMKII in signaling pathways related to synaptic plasticity, learning, memory, and other physiological processes.

Storage

Store at -20°C, and keep desiccated.
