

## Product Information

### KN-93

**Cat. No.:** X23-12-YM173

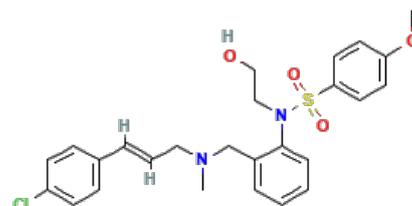
**Size:** 5 mg; 10 mg; 25 mg; 50 mg

**CAS Number:** 139298-40-1

**PubChem CID:** 5312122

**Synonym:** 139298-40-1; Methoxybenzene-sulfonamide

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



### Product Information

<b>Description</b>	KN-93, soluble in DMSO and ethanol and insoluble in water, interferes with or suppresses the transmission of signals between neurons in the nervous system.
<b>Molecular Weight</b>	501.04
<b>Molecular Formula</b>	C <sub>26</sub> H <sub>29</sub> ClN <sub>2</sub> O <sub>4</sub> S
<b>IUPAC Name</b>	<i>N</i> -[2-[[[ <i>E</i> ]-3-(4-chlorophenyl)prop-2-enyl]-methylamino]methyl]phenyl]- <i>N</i> -(2-hydroxyethyl)-4-methoxybenzenesulfonamide
<b>InChI</b>	InChI=1S/C26H29ClN2O4S/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/h3-16, 30H, 17-20H2, 1-2H3/b6-5+
<b>InChI Key</b>	LLLQTDSSHZREGW-AATRIKPKSA-N
<b>Canonical SMILES</b>	CN(CC=CC1=CC=C(C=C1)Cl)CC2=CC=CC=C2N(CCO)S(=O)(=O)C3=CC=C(C=C3)OC
<b>Isomeric SMILES</b>	CN(C/C=C/C1=CC=C(C=C1)Cl)CC2=CC=CC=C2N(CCO)S(=O)(=O)C3=CC=C(C=C3)OC
<b>Form</b>	Lyophilized powder
<b>Purity</b>	>98%
<b>Solubility</b>	DMSO: 95 mg/mL (189.6 mM); Water: insoluble; Ethanol: 20 mg/mL (39.91 mM)
<b>Stability</b>	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
<b>Applications</b>	KN-93 can be studied extensively for its potential effect on inhibiting the activity of CaMKII by binding to the calmodulin-binding domain of the kinase, thereby preventing its activation in response to calcium/calmodulin signaling.
<b>Storage</b>	Store at -20°C, and keep desiccated.

