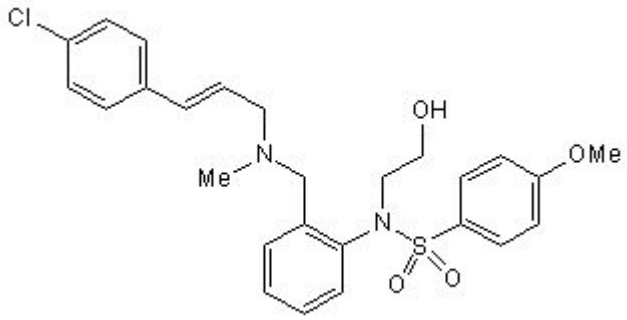
Product Introduction

KN93

Technical Data:

Molecular Weight (MW):	501.04
Formula:	$C_{26}H_{29}ClN_2O_4S$
Solubility:	Soluble to 100 mM in DMSO with gentle warming
Purity:	>98%
Storage:	Store at +4°C
CAS No.:	139298-40-1



Biological Activity

Potent, cell permeable inhibitor of CaM kinase II (IC50 = 0.37 μM). Also a direct extracellular open channel blocker of voltage-gated potassium channels (IC50 = 307 nM for Kv1.5); independent of CaM kinase II inhibition.

References

Sumi et al (1991) The newly synthesized selective Ca2+/calmodulin dependent protein kinase II inhibitor KN-93 reduces dopamine content in PC12h cells. Biochem.Biophys.Res.Comm. 181 968.
Anderson et al (1998) KN-93, an inhibitor of multifunctional Ca2+/calmodulin-dependent protein kinase, decreases early afterdepolarizations in rabbit heart. J.Pharmacol.Exp.Ther. 287 996. PMID: 9864285.
Patel et al (1999) Calcium/calmodulin-dependent phosphorylation and activation of human Cdc25-C at the G2/M phase transition in HeLa cells. J.Biol.Chem. 274 7958. PMID: 10075693.
Rezazadeh et al (2006) KN-93 (2-[N-(2-Hydroxyethyl)]-N-(4-methoxybenzenesulfonyl)]-amino-N-(4-chlorocinnamyl)-N-methyl benzylamine), a calcium/calmodulin-dependent protein kinase II inhibitor, is a direct extracellular

blocker of voltage-gated potassium channels. J.Pharmacol.Exp.Ther. 317 292. PMID: 16368898.

If you know of a relevant citation for this product please let us know.