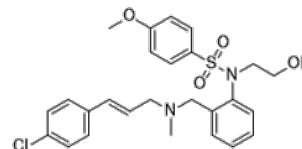


Product Name : KN-93
Cat. No. : PC-24564
CAS No. : 139298-40-1
Molecular Formula : C₂₆H₂₉ClN₂O₄S
Molecular Weight : 501.04
Target : CaMK
Solubility : 10 mM in DMSO



Biological Activity

KN-93 is a selective, cell-permeable, reversible and competitive inhibitor calmodulin-dependent kinase type II (CaMKII) with K_i of 0.37 μ M.

KN-93 shows no significant effects on the catalytic activity of cAMP-dependent protein kinase, Ca²⁺/phospholipid dependent protein kinase, myosin light chain kinase and Ca(2+)-phosphodiesterase.

KN-93 also inhibits the autophosphorylation of both the α - and β -subunits of CaMKII.

KN-93 decreases dopamine (DA) levels in PC12h cells, significantly suppressed KCl or acetylcholine-induced tyrosine hydroxylase (TH) phosphorylation.

References

Sumi M, et al. Biochem Biophys Res Commun. 1991 Dec 31;181(3):968-75.

Mamiya N, et al. Biochem Biophys Res Commun. 1993 Sep 15;195(2):608-15.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com