

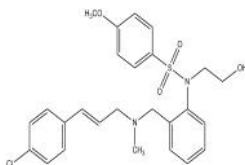
Product: KN-93

ALTERNATE NAME: N-[2-[[[3-(4-chlorophenyl)-2-propen-1-yl]methylamino]methyl]phenyl]-N-(2-hydroxyethyl)-4-methoxybenzenesulfonamide

CATALOG #: 2524-250, 1000

AMOUNT: 250 µg, 1 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₆H₂₉ClN₂O₄S

MOLECULAR WEIGHT: 501.04

CAS No. 139298-40-1

APPEARANCE: White solid

SOLUBILITY: DMSO (>40 mg/ml)

PURITY: >98%

STORAGE: Store at -20°C. Protect from air and light

DESCRIPTION: Cell-permeable. KN-93 is a potent inhibitor of Ca²⁺/calmodulin-dependent kinase type II (CaM kinase II) (IC₅₀ = 0.37 µM). It does not affect the activities of PKA, PKC, MLCK, or Ca²⁺-phosphodiesterase. Also a direct extracellular open channel blocker of voltage-gated potassium channels (IC₅₀ = 307 nM for Kv1.5). More recently, KN-93 has been used to implicate roles for CaMKII in Ca²⁺-induced Ca²⁺ release in cardiac myocytes.

REFERENCES: Rezazadeh, S., *et al.* (2006). *J. Pharmacol. Exp. Ther.* **317**, 292-299; Anderson, M.E., *et al.* (1998). *J. Pharmacol. Exp. Ther.* **287**, 996-1006.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Berbamine dihydrochloride (**Cat. No. 2520-50, 250**)

K252a (**Cat. No. 2013-500, 1000**)

KN-93, Water-soluble (**Cat. No. 1909-1, 5**)

KN-62 (**Cat. No. 2495-1, 5**)

FOR RESEARCH USE ONLY! Not to be used in humans.