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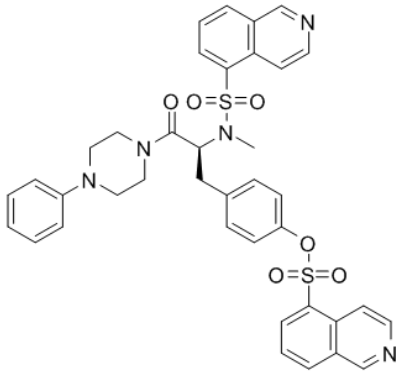
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	KN-62
Cat. No.	:	PC-43468
CAS No.	:	127191-97-3
Molecular Formula	:	$C_{38}H_{35}N_5O_6S_2$
Molecular Weight	:	
Target	:	CaMK
Solubility	:	10 mM in DMSO



Biological Activity

KN-62 (KN62) is a specific inhibitor of Ca2+/calmodulin-dependent protein kinase II (**CaMK II**) with Ki of 900 nM for rat brain CaMK II, also is a potent, noncompetitive antagonist of **P2X7** receptor with IC50 of 15 nM in HEK293 cells.
KN-62 potently antagonizes ATP-stimulated Ba2+ influx into fura-2 loaded human lymphocytes with IC50 of 12.7 nM, inhibits ATP-stimulated ethidium+ uptake with IC50 of 13.1 nM.
KN-62 causes hypertension and tachycardia in rats, associated with the diminished rate of GABA release in cerebrospinal fluid.

References

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Ishikawa N, et al. ***J Pharmacol Exp Ther.*** 1990 Aug;254(2):598-602.

Ito I, et al. ***Neurosci Lett.*** 1991 Jan 2;121(1-2):119-21.

Gargett CE, et al. ***Br J Pharmacol.*** 1997 Apr;120(8):1483-90.

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