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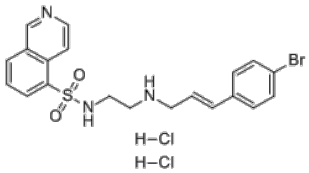
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	PKA inhibitor H89
Cat. No.	:	PC-20821
CAS No.	:	130964-39-5
Molecular Formula	:	$C_{20}H_{22}BrCl_2N_3O_2S$
Molecular Weight	:	519.28
Target	:	Other Targets
Solubility	:	10 mM in DMSO



CAS: 130964-39-5

Biological Activity

PKA inhibitor H89 (H-89 dihydrochloride) is a potent, selective cAMP-dependent protein kinase A (**PKA**) inhibitor with IC50 of 48 nM, weakly inhibits PKG, PKC, casein kinases.
PKA inhibitor H89 causes a dose-dependent inhibition of the forskolin-induced protein phosphorylation, with no decrease in intracellular cyclic AMP levels in PC12D cells.
PKA inhibitor H89 significantly inhibits the forskolin-induced neurite outgrowth from PC12D cells.
PKA inhibitor H89 (30 μM) inhibited significantly cAMP-dependent histone IIb phosphorylation activity in cell lysates but did not affect other protein phosphorylation activity.
PKA inhibitor H89 significantly increases seizure latency and threshold in PTZ-treated animals.

References

Hansen SH, et al. ***J Cell Biol.*** 1994 Aug;126(3):677-87.

Chijiwa T, et al. ***J Biol Chem.*** 1990 Mar 25;265(9):5267-72.

Hosseini-Zare MS, et al. ***Eur J Pharmacol.*** 2011 Nov 30;670(2-3):464-70.

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