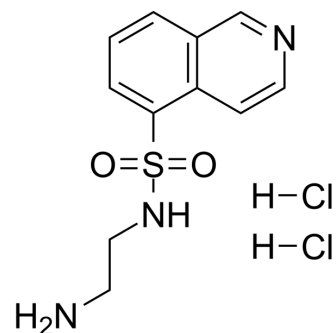


## H-9 Dihydrochloride

<b>Cat. No.:</b>	HY-100923
<b>CAS No.:</b>	116700-36-8
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>15</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>2</sub> S
<b>Molecular Weight:</b>	324.23
<b>Target:</b>	PKA; 5-HT Receptor; EGFR
<b>Pathway:</b>	Protein Tyrosine Kinase/RTK; Stem Cell/Wnt; GPCR/G Protein; Neuronal Signaling; JAK/STAT Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	H-9 Dihydrochloride is a PKA (protein kinase) inhibitor. H-9 Dihydrochloride (10 μM) significantly reduces the excitatory response to 5-HT. H-9 Dihydrochloride also has a direct effect on pharyngeal activity. H-9 Dihydrochloride inhibits signal-transduction and cell growth in EGF (epidermal growth factor)-dependent epithelial cell lines <sup>[1][2][3]</sup> .
<b>In Vitro</b>	H-9 Dihydrochloride significantly inhibits A431 cells <sup>[1]</sup> . H-9 Dihydrochloride inhibits more effectively cyclic nucleotide-dependent protein kinases than other kinases <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	H-9 Dihydrochloride microperfusion (100 μM) prevents picrotoxin seizures in 50% of the animals and significantly reduced the mean number of seizures and mean seizure duration <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Ito M, et al. A potent inhibitor of protein kinase C inhibits natural killer activity. *Int J Immunopharmacol.* 1988;10(3):211-6.
- [2]. Vázquez-López A, et al. Role of cAMP-dependent protein kinase on acute picrotoxin-induced seizures. *Neurochem Res.* 2005 May;30(5):613-8.
- [3]. Wollina U, et al. Inhibition of signal transduction in EGF-dependent epithelial cell lines. *Int J Mol Med.* 2003 Oct;12(4):673-7.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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