H-8 dihydrochloride

Cat. No.: HY-112465

CAS No.: 113276-94-1

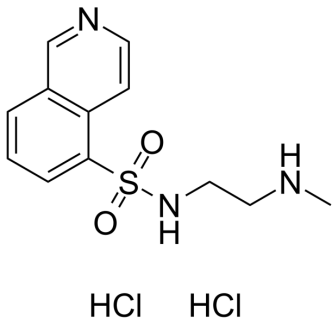
Molecular Formula: $C_{12}H_{17}Cl_2N_3O_2S$

Molecular Weight: 338.25

Target: PKA

Pathway: Stem Cell/Wnt

Storage: -20°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 20.83 mg/mL (61.58 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.9564 mL	14.7820 mL	29.5639 mL
	5 mM	0.5913 mL	2.9564 mL	5.9128 mL
	10 mM	0.2956 mL	1.4782 mL	2.9564 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (7.39 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (7.39 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.39 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

H-8 (dihydrochloride) is a cell-permeable, reversible and ATP-competitive PKA inhibitor[1].

REFERENCES

[1]. Niisato N, et al. Effects of PKA inhibitors, H-compounds, on epithelial Na+ channels via PKA-independent mechanisms. Life Sci. 1999;65(10):PL109-14.

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

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