Protein kinase inhibitor H-7 dihydrochloride

Cat. No.: HY-100983

CAS No.: 108930-17-2

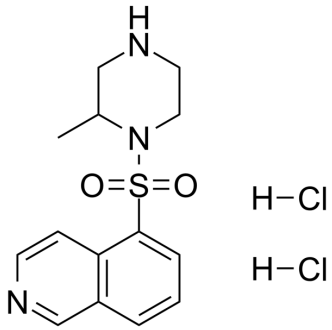
Molecular Formula: $C_{14}H_{19}Cl_2N_3O_2S$

Molecular Weight: 364.29

Target: PKC

Pathway: Epigenetics; TGF-beta/Smad

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 16.67 mg/mL (45.76 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.7451 mL	13.7253 mL	27.4507 mL
	5 mM	0.5490 mL	2.7451 mL	5.4901 mL
	10 mM	0.2745 mL	1.3725 mL	2.7451 mL

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

BIOLOGICAL ACTIVITY

Description

Protein kinase inhibitor H-7 dihydrochloride is a potent PKC (protein kinase C) inhibitor. At 100 μM, Protein kinase inhibitor H-7 dihydrochloride completely inhibits both TPA (skin tumour promoter, 12-O-tetradecanoylphorbol-13-acetate) and phospholipase C-induced ODC (ornithine decarboxylase)[1].

REFERENCES

[1]. Fischer SM, et al. Mediation of phorbol ester-induced oxidant generation in murine epidermal cells by protein kinase C. Toxicol In Vitro. 1989;3(3):195-9.

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

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