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A PeproTech Brand

Technical Data Sheet

H 89 dihydrochloride

Catalogue Number : 1303954

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: H-89 dihydrochloride hydrate

Chemical Name: N-[2-[[(E)-3-(4-bromophenyl)prop-2-enyl]amino]ethyl]isoquinoline-5-sulfonamide;hydrate;dihydrochloride

Molecular Formula: $C_{20}H_{20}BrN_3O_2S \cdot 2HCl$

Molecular Weight: 519.3

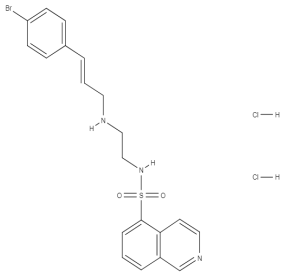
CAS Number: 130964-39-5

Purity: ≥98%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

H 89 is a potent PKA inhibitor and an inhibitor for other protein kinases including S6K1, MSK1, ROCKII, PCKalpha, and MAPKAP-K1b. It has been shown to decrease morphine withdrawal symptoms in mice and to inhibit the forsolin-induced neurite outgrowth of PC12D pheochromocytoma cells.

Preparation & Storage

Soluble in organic solvents such as DMF and DMSO. DMSO up to 25mg/ml.

References

1.Chijiwa, T., Mishima, A., Hagiwara, M., Sano, M., Hayashi, K., Inoue, T., ... Hidaka, H. (1990). Inhibition of forskolin-induced neurite outgrowth and protein phosphorylation by a newly synthesized selective inhibitor of cyclic AMP-dependent protein kinase, N-[2-(p-bromocinnamylamino) ethyl]-5-isoquinolinesulfonamide (H-89), of PC12D pheochromocytoma cells.Journal of Biological Chemistry,265(9), 5267-5272.

2. Hidaka, H., Kobayashi, R. (1992). Pharmacology of protein kinase inhibitors.Annual review of pharmacology and toxicology,32(1), 377-397.

3. Lochner, A., Moolman, J. A. (2006). The many faces of H89: a review.Cardiovascular Therapeutics,24(34), 261-274.

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