

DATA SHEET

Product Name: H 89 2HCl

Catalog #: CV-1018

Alt: CAS # 130964-39-5; N-[2-[[3-(4-Bromophenyl)-2-propenyl]amino]ethyl]-5-isoquinolinesulfonamide, dihydrochloride

Molecular Mass: 519.3

Analysis: >98% (TLC); NMR (conforms)

Supplied As: Off-white powder

Resuspension: May be dissolved in DMSO (50 mg/ml); or water (10 mg/ml)

Storage: Store desiccated as supplied at -20°C for up to 1 year. Store solutions at -20°C for up to 3 months.

Description: Protein kinase A inhibitor, $IC_{50}=135$ nM. Also inhibits several other kinases, $IC_{50} = 80, 120, 270, 2600$ and 2800 nM for S6K1, MSK1, ROCKII, PKB α and MAPKAP-K1b, respectively^{1,2}. A useful probe for PKA but due to selectivity issues, H-89 should be used along with other PKA inhibitors to ascertain the role of PKA in cellular signaling pathways². Has been used in a novel assay employing *in vivo* substrate screening³. Cell permeable.

References:

1. Lochner, A., and Moolman, J.A., (2006) *Cardiovasc. Drug. Rev.*, 24 : 261
2. Chijwa, T., et al., (1990) *J. Biol. Chem.*, 265 : 5267
3. Hamaguchi, T., et al., (2015) *Cell Struct. Funct.*, 40 : 1

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