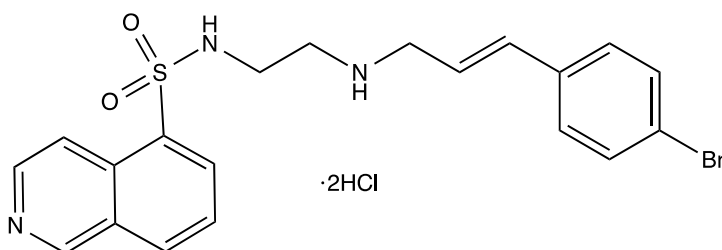


**Catalog # 10-2144**  
**H-89 dihydrochloride**

CAS# 130964-39-5

N-[2-[[3-(4-Bromophenyl)-2-propen-1-yl]amino]ethyl]-5-isoquinolinesulfonamide dihydrochloride

Lot # FBS3061



H-89 is a commonly used inhibitor of protein kinase A (PKA  $IC_{50} = 140$  nM). Inhibits a variety of other kinases including S6K1 ( $IC_{50} = 80$  nM), MSK1 (120 nM), ROCK II (270 nM), PKB $\alpha$  (2.6  $\mu$ M), PKD, PRK2, RSK1 and 2, SGK, AMPK, CHK1 and MAPKAP-K1b (2.8  $\mu$ M).<sup>1,2</sup>

- 1) Lochner and Moolman (2006), *The many faces of H89: a review*; Cardiovasc. Drugs, **24** 261
- 2) Bain *et al.* (2007), *The selectivity of protein kinase inhibitors: a further update*; Biochem.J. **408(Pt3)** 297

**PHYSICAL DATA**

Molecular Weight:	519.28
Molecular Formula:	$C_{20}H_{20}BrN_3O_2S \cdot 2HCl$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (50 mg/ml) and water (12 mg/mL)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or water may be stored at -20°C for up to 3 months.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**