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## DATASHEET

H 89 dihydrochloride

### Product overview

<b>Name</b>	H 89 dihydrochloride
<b>Cat No</b>	HB0314
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>99%
<b>Description</b>	Potent, non-selective kinase inhibitor. Also improves dissociate hESCs survival and clonogenicity.

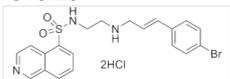
### Biological Data

<b>Biological description</b>	Potent, non-selective kinase inhibitor. Protein kinase A inhibitor ( $IC_{50} = 135$ nM). Also inhibits S6K1, MSK1, ROCKII, PKBa and MAPKAP-K1b ( $IC_{50}$ values are 80, 120 and 270 nM, 2.6 $\mu$ M and 2.8 $\mu$ M respectively). Also improves dissociate hESCs survival and clonogenicity.
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### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in water (25mM) or DMSO (100mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	N-[2-[[[3-(4-Bromophenyl)-2-propenyl]amino]ethyl]-5-isoquinolinesulfonamidedihydrochloride
<b>Molecular Weight</b>	519.28
<b>Chemical structure</b>	
<b>Molecular Formula</b>	$C_{20}H_{20}BrN_3O_2S \cdot 2HCl$
<b>CAS Number</b>	130964-39-5
<b>PubChem identifier</b>	5702541
<b>SMILES</b>	<chem>O=S(C2=CC=CC1=CN=CC=C12)(NCCNC/C=C/C3=CC=C(Br)C=C3)=O.Cl.Cl</chem>
<b>InChiKey</b>	GELOGQJVGIKAM-WTVBWJGASA-N

### References

#### The many faces of H89: a review.

Lochner A *et al* (2006) *Cardiovasc Drug Rev* 24(3-4)  
**PubMedID** [17214602](#)

#### Involvement of cAMP response element-binding protein activation in salivary secretion.

Yamada K *et al* (2006) *Pathobiology* 73(1)  
**PubMedID** [16785762](#)

### Specificity and mechanism of action of some commonly used protein kinase inhibitors.

Davies SP *et al* (2000) *Biochem J* 351(Pt 1)

**PubMedID** [10998351](#)

### Pharmacological PKA inhibition: all may not be what it seems.

Murray AJ (2008) *Sci Signal* 1(22)

**PubMedID** [18523239](#)

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