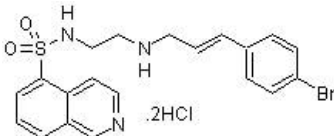


Product datasheet

H89 dihydrochloride, Kinase inhibitor ab120341

[6 References](#) [2 Images](#)

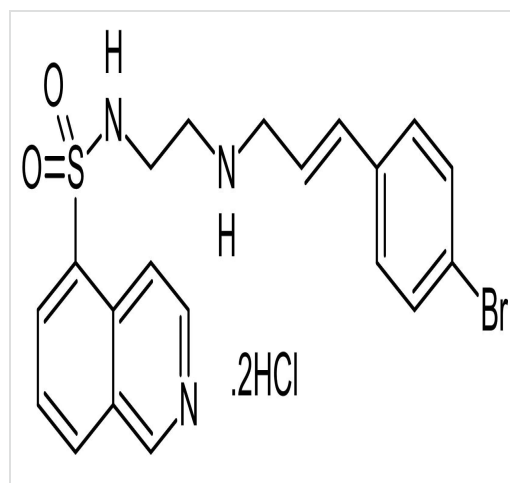
Overview

Product name	H89 dihydrochloride, Kinase inhibitor
Description	Kinase inhibitor
Biological description	Kinase inhibitor, commonly used as a protein kinase A inhibitor (IC_{50} = 135 nM). Also inhibits other kinases, including MSK1 , S6K1 and ROCKII (IC_{50} values are 120, 80 and 270 nM, respectively).
CAS Number	130964-39-5
Chemical structure	

Properties

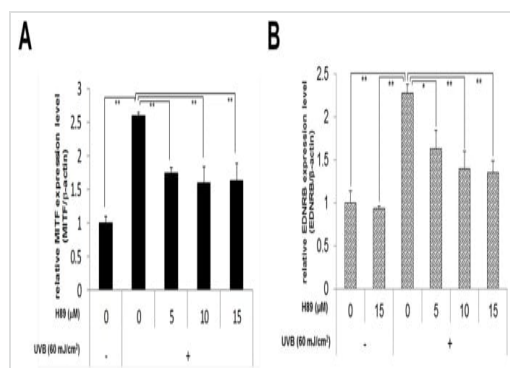
Chemical name	<i>N</i> -[2-[[3-(4-Bromophenyl)-2-propen-1-yl]amino]ethyl]-5-isoquinolinesulfonamide dihydrochloride
Molecular weight	519.28
Molecular formula	C ₂₀ H ₂₀ BrN ₃ O ₂ S.2HCl
PubChem identifier	5702541
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 100 mM and in water to 25 mM (with heating)
Handling	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Refer to SDS for further information.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
SMILES	<chem>C1=CC2=C(C=CN=C2)C(=C1)S(=O)(=O)NCCNC/C=C/C3=CC=C(C=C3)Br.Cl.Cl</chem>

Images



2D chemical structure image of ab120341, H89 dihydrochloride, Kinase inhibitor

Chemical Structure - H89 dihydrochloride, Kinase inhibitor (ab120341)



Functional Studies - H89 dihydrochloride, Kinase inhibitor (ab120341)

Image from Tagashira, Hideki et al., PLOS One., 10(6):e0128678. Fig 8.; doi: 10.1371/journal.pone.0128678. Reproduced under the Creative Commons license <http://creativecommons.org/licenses/by/4.0/>

Normal human melanocytes (NHMs) were treated with ab120341 at the indicated concentrations to test if the inhibition of MSK1 activation results in the down-regulated MITF and EDNRB expression in UVB-exposed NHMs. ab120341 was added immediately after UVB irradiation and cells were cultured for 6h (for MITF, A) or 24 h (for EDNRB, B). Total mRNAs were purified and Real-time RT-PCR was carried out with MITF or EDNRB primer and β -actin primer as the internal control. Error bars represent S.D. from triplicate experiments. * $P < 0.05$ and ** $P < 0.01$ against NHMs UVB-irradiated in the absence of H89, respectively.

Tagashira, Hideki et al., PLOS One., 10(6):e0128678. Fig 8.; doi: 10.1371/journal.pone.0128678.

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