

Product datasheet

HA-1077 (Fasudil), ROCK2 inhibitor ab120306

2 Images

Overview

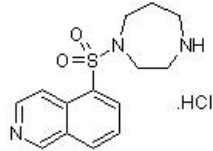
Product name	HA-1077 (Fasudil), ROCK2 inhibitor
Description	ROCK2 inhibitor
Biological description	ROCK2 inhibitor ($IC_{50} = 1.9 \mu M$). Also shown to inhibit PRK2 ($IC_{50} = 4 \mu M$), MSK1 ($IC_{50} = 5 \mu M$), Rsk2 ($IC_{50} = 15 \mu M$), PKA, p70 S6 Kinase, CaM Kinase and MLCK. Calcium antagonist and vasodilator.

Also available in simple stock solutions ([ab146700](#)) - add 1 ml of water to get an exact, ready-to-use concentration.

Purity > 98%

CAS Number 105628-07-7

Chemical structure



Properties

Chemical name	5-(1,4-diazepan-1-ylsulfonyl)isoquinoline;hydrochloride
Molecular weight	327.80
Molecular formula	$C_{14}H_{18}ClN_3O_2S$
PubChem identifier	163751
Storage instructions	Store at Room Temperature. The product can be stored for up to 12 months.
Solubility overview	Soluble in water to 100 mM

Handling 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 $-20^{\circ}C$. 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.

Refer to SDS for further information

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

SMILES

Cl.O=S(=O)(c2cccc1cnccc12)N3CCCNCC3

Source

Synthetic

Applications

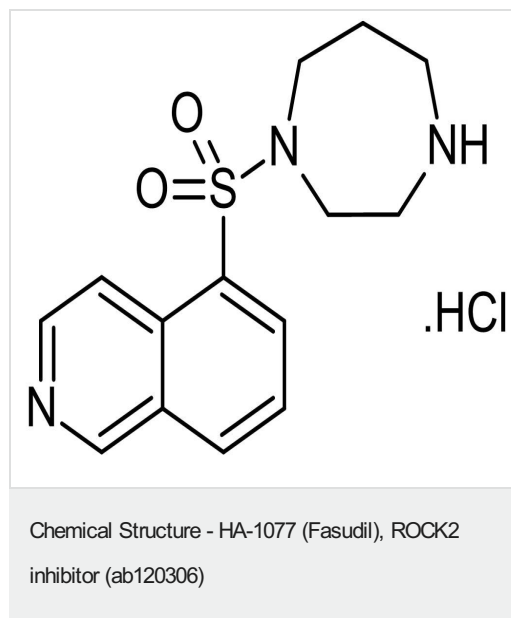
The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab120306 in the following tested applications.

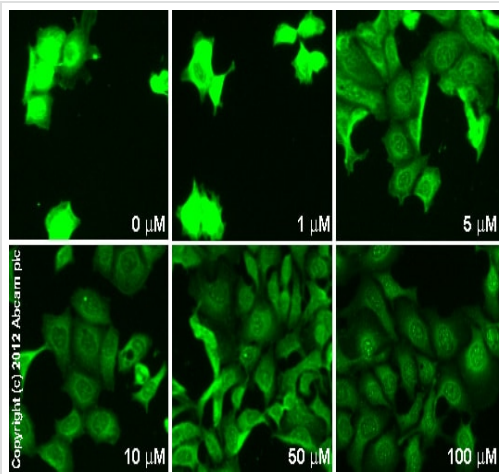
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



2D chemical structure image of ab120306, HA-1077 (Fasudil), ROCK2 inhibitor



Functional Studies - HA-1077 (Fasudil), ROCK2 inhibitor (ab120306)

ab46154 staining VEGF in MCF7 cells treated with HA 1077 (ab120306), by ICC/IF. Decrease in VEGF expression correlates with increased concentration of HA 1077 as described in literature. The cells were incubated at 37°C for 1h in media containing different concentrations of ab120306 (HA 1077) in DMSO, fixed with 100% methanol for 5 minutes at -20°C and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with **ab46154** (5 μg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody (**ab96899**) at 1/250 dilution was used as the secondary antibody.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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