

**Certificate of Analysis** 

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Print Date: Jan 15th 2016

Product Name: HA 1100 hydrochloride Catalog No.: 2415 Batch No.: 1

CAS Number: 155558-32-0

IUPAC Name: 1-[(1,2-Dihydro-1-oxo-5-isoquinolinyl)sulfonyl]hexahydro-1*H*-1,4-diazepine hydrochloride

# 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:  $C_{14}H_{17}N_3O_3S.HCl.\frac{1}{2}H_2O$ 

Batch Molecular Weight: 352.84

Physical Appearance: White solid

Solubility: water to 20 mM

Storage: Store at -20°C

**Batch Molecular Structure:** 

## 2. ANALYTICAL DATA

HPLC: Shows >99.7% purity

<sup>1</sup>H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen Sulfur

Theoretical 47.66 5.43 11.91 9.09 Found 47.92 5.17 11.66 9.41



# **Product Information**

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## **Description:**

Cell-permeable active metabolite of Fasudil (HA 1077; Cat. No. 0541). Produces ATP-competitive and reversible inhibition of Rho-kinase and is ~ 100-fold selective over a range of other protein kinases. Inhibits neutrophil migration and produces potent vasodilatory effects in vivo.

#### **Physical and Chemical Properties:**

Batch Molecular Formula:  $C_{14}H_{17}N_3O_3S.HCI.1/2H_2O$ 

Batch Molecular Weight: 352.84 Physical Appearance: White solid

**Minimum Purity: >99%** 

#### **Batch Molecular Structure:**

Storage: Store at -20°C

# Solubility & Usage Info:

water to 20 mM

#### Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

### References:

Arai et al (1993) Inhibition by the protein kinase inhibitor HA1077 of the activation of NADPH oxidase in human neutrophils. Biochem.Pharmacol. 46 1487. PMID: 8240400.

**Shimokawa** et al (1999) Rho-kinase-mediated pathway induces enhanced myosin light chain phosphorylations in a swine model of coronary artery spasm. Cardiovasc.Res. **43** 1029. PMID: 10615430.

**Utsunomiya** et al (2001) Antianginal effects of hydroxyfasudil, a Rho-kinase inhibitor, in a canine model of effort angina. Br.J.Pharmacol. **134** 1724. PMID: 11739249.