

**Product Name:** Glycyl-H 1152 dihydrochloride

**Catalog No.:** 2485

**Batch No.:** 1

CAS Number: 913844-45-8

IUPAC Name: (S)-(+)-4-Glycyl-2-methyl-1-[(4-methyl-5-isoquinolinyl)sulfonyl]-hexahydro-1H-1,4-diazepine dihydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>18</sub>H<sub>24</sub>N<sub>4</sub>O<sub>3</sub>S.2HCl.½H<sub>2</sub>O

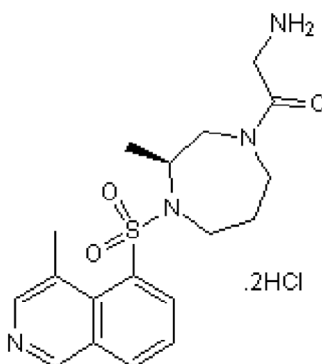
**Batch Molecular Weight:** 458.41

**Physical Appearance:** White solid

**Solubility:** water to 100 mM  
DMSO to 50 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.34 (Dichloromethane:Methanol:Ammonia soln. [90:9:1])

**HPLC:** Shows >99.7% purity

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

**Mass Spectrum:** Consistent with structure

**Optical Rotation:** [α]<sub>D</sub> = +27.8 (Concentration = 1, Solvent = Water)

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	47.16	5.94	12.22
Found	47.31	6.03	12.15

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**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel: +1 612 379 2956

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**Description:**

Glycyl-H 1152 dihydrochloride is a glycyl analog of the Rho-kinase inhibitor H 1152 dihydrochloride (Cat. No. 2414) that displays improved ROCKII selectivity. IC<sub>50</sub> values are 0.0118, 2.35, 2.57, 3.26, > 10 and >10 μM for ROCKII, Aurora A, CAMKII, PKG, PKA and PKC respectively.

**Physical and Chemical Properties:**

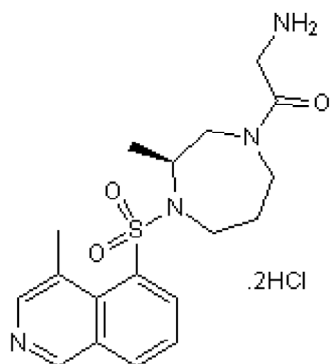
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Batch Molecular Weight: 458.41

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 100 mM

DMSO to 50 mM

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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:**

Tamura *et al* (2005) Development of specific Rho-kinase inhibitors and their clinical application. *Biochim.Biophys.Acta* **1754** 245. PMID: 16213195.

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