

# Certificate of Analysis

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**Product Name:** SB 772077B dihydrochloride

**Catalog No.:** 4118

**Batch No.:** 1

CAS Number: 607373-46-6

IUPAC Name: (3S)-1-[[2-(4-Amino-1,2,5-oxadiazol-3-yl)-1-ethyl-1*H*-imidazo[4,5-*c*]pyridin-7-yl]carbonyl]-3-pyrrolidinamine dihydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>15</sub>H<sub>18</sub>N<sub>8</sub>O<sub>2</sub>·2HCl·½H<sub>2</sub>O

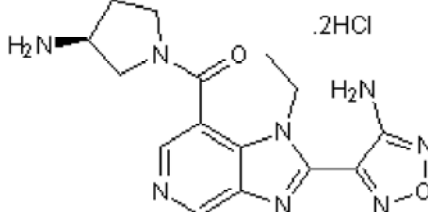
**Batch Molecular Weight:** 424.29

**Physical Appearance:** White solid

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

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.9% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	42.46	4.99	26.41
Found	42.5	4.97	26.37

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**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](http://www.tocris.com/distributors)

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**Description:**

SB 772077B dihydrochloride is a potent Rho-kinase (ROCK) inhibitor (IC<sub>50</sub> value of approximately 5.6 nM at recombinant human ROCK1 and 2). Decreases pulmonary and systemic arterial blood pressures and increases cardiac output. Exhibits vasodilator activity that is more potent than Y-27632 (Cat. No 1254) or Fasudil (Cat. No. 0541).

**Physical and Chemical Properties:**

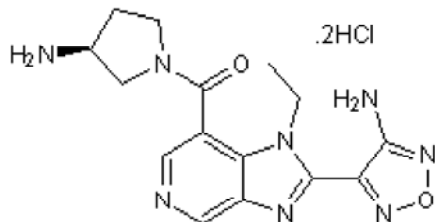
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Batch Molecular Weight: 424.29

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 100 mM

DMSO to 100 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.

**Licensing Information:**

Sold for research purposes under agreement from GlaxoSmithKline

**References:**

**Dhaliwal et al** (2009) Analysis of pulmonary vasodilator responses to SB-772077-B [4-(7-((3-amino-1-pyrrolidinyl)carbonyl)-1-ethyl-1H-imidazo(4,5-c)pyridin-2-yl)-1,2,5-oxadiazol-3-amine], a novel aminofurazan-based Rho kinase inhibitor. *J.Pharm.Exp.Ther.* **330** 334.

**Doe et al** (2007) Novel Rho kinase inhibitors with anti-inflammatory and vasodilatory activities. *J.Pharmacol.Exp.Ther.* **320** 89. PMID: 17018693.

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