

Certificate of Analysis

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Product Name: SB 772077B dihydrochloride

Catalog No.: 4118

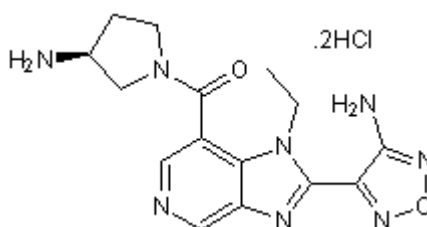
Batch No.: 1

CAS Number: 607373-46-6

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

1. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------------|---|
| Batch Molecular Formula: | C ₁₅ H ₁₈ N ₈ O ₂ ·2HCl·½H ₂ 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 |
| ¹H 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

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Description:

Potent Rho-kinase (ROCK) inhibitor (IC₅₀ 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:

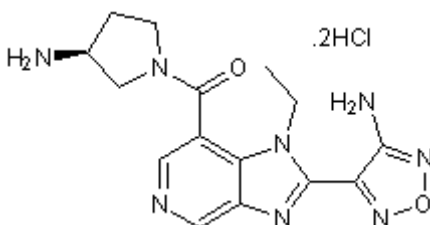
Batch Molecular Formula: C₁₅H₁₈N₈O₂·2HCl·½H₂O

Batch Molecular Weight: 424.29

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

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

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.

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.

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