

# **Certificate of Analysis**

Print Date: Jan 14th 2016

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Product Name: BC 11 hydrobromide Catalog No.: 4372 Batch No.: 1

CAS Number: 443776-49-6

IUPAC Name: Carbamimidothioic acid (4-boronophenyl)methyl ester hydrobromide

#### 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C<sub>8</sub>H<sub>11</sub>BN<sub>2</sub>O<sub>2</sub>S.HBr

**Batch Molecular Weight:** 290.97 **Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM

water to 20 mM with gentle warming

Storage: Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 98.3% purity

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

Mass Spectrum: Consistent with structure

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Microanalysis: Carbon Hydro

Carbon Hydrogen Nitrogen
Theoretical 33.02 4.16 9.63
Found 33.39 4.19 9.45



## **Product Information**

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#### **Description:**

Selective urokinase (uPA) inhibitor (IC $_{50}$  = 8.2  $\mu$ M). Exhibits no activity at 8 other related enzymes. Inhibits clot lysis with no effect on clot formation. Also decreases viability of MDA-MB231 breast cancer cells in vitro.

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

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

**Storage:** Store at -20°C

#### Solubility & Usage Info:

DMSO to 100 mM

water to 20 mM with gentle warming

This product should not be dissolved in ethanol as it may decompose.

Catalog No.: 4372

#### 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:

Smith et al (2011) Elucidating novel urokinase-type plasminogen activator inhibitors. Int.Soc.Thromb.Haemost. (Abstract) 9 819.

Longo et al (2015) Cytotoxicity of the Urokinase-Plasminogen Activator Inhibitor Carbamimidothioic Acid (4-Boronophenyl) Methyl Ester Hydrobromide (BC-11) on Triple-Negative MDA-MB231 Breast Cancer Cells Molecules 20 9879. PMID: 26029857.