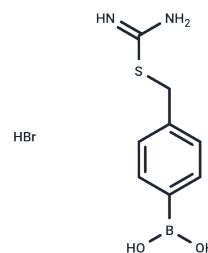


## BC 11 hydrobromide

## Chemical Properties

CAS No. :	443776-49-6
Formula:	C <sub>8</sub> H <sub>12</sub> BBrN <sub>2</sub> O <sub>2</sub> S
Molecular Weight:	290.97
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	BC 11 hydrobromide is a selective Tmprss2 and urokinase (uPA) inhibitor. BC-11 induces diminished mitochondrial activity, promotes reactive oxygen species production, and promotes apoptosis, and can be used in the study of breast cancer.
Targets(IC50)	Apoptosis, PAI-1, ROS, SARS-CoV, Serine Protease

## Solubility Information

Solubility	DMSO: 100 mg/mL (343.68 mM), Sonication is recommended. H <sub>2</sub> O: 15 mg/mL (51.55 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4368 mL	17.1839 mL	34.3678 mL
5 mM	0.6874 mL	3.4368 mL	6.8736 mL
10 mM	0.3437 mL	1.7184 mL	3.4368 mL
50 mM	0.0687 mL	0.3437 mL	0.6874 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Moumbock AFA, et al. BC-11 is a covalent TMPRSS2 fragment inhibitor that impedes SARS-CoV-2 host cell entry. Arch Pharm (Weinheim). 2023 Jan;356(1):e2200371.

Semina E, et al. Urokinase and urokinase receptor participate in regulation of neuronal migration, axon growth and branching. Eur J Cell Biol. 2016 Sep;95(9):295-310.

Longo A, et al. Cytotoxicity of the Urokinase-Plasminogen Activator Inhibitor Carbamimidiothioic Acid (4-Boronophenyl) Methyl Ester Hydrobromide (BC-11) on Triple-Negative MDA-MB231 Breast Cancer Cells. Molecules. 2015 May 28;20(6):9879-89.

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