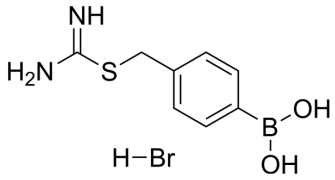
BC-11 hydrobromide

Cat. No.:	HY-108447
CAS No.:	443776-49-6
Molecular Formula:	$C_8H_{12}BBrN_2O_2S$
Molecular Weight:	290.97
Target:	Ser/Thr Protease; SARS-CoV; PAI-1
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	BC-11 hydrobromide is a selective TMPRSS2 inhibitor (TMPRSS2 is a key host cellular factor for viral entry and SARS-CoV-2 pathogenesis), and a selective urokinase (uPA) inhibitor (IC_{50}=8.2 μM). BC-11 hydrobromide is cytotoxic to triple-negative MDA-MB231 breast cancer cells. BC-11 hydrobromide is used in research on viral infections and cancer[1][2][3].
IC_{50} & Target	IC50: 8.2 μM (uPA)[3].

REFERENCES

[1]. 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.

[2]. 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.

[3]. Longo A, et al. 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. 2015 May 28;20(6):9879-89.

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