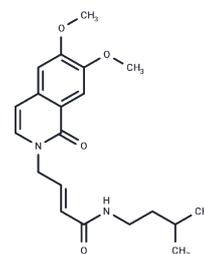


Immunoproteasome inhibitor 1

Chemical Properties

CAS No. :	2755772-63-3
Formula:	C ₂₀ H ₂₆ N ₂ O ₄
Molecular Weight:	358.43
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Immunoproteasome inhibitor 1 is a highly potent and reversible inhibitor of both immunoproteasome and proteasome activity. It exhibits time-independent inhibitory effects on immunoproteasome subunits β 5c, β 1i, and β 5i, with respective K_i values of 1.18 μ M, 0.27 μ M, and 1.91 μ M. This compound shows promising potential for the treatment of select neoplastic diseases [1].
In vitro	Immunoproteasome inhibitor 1 (compound 9), used in concentrations ranging from 0 to 25 μ M for durations of 0 to 600 seconds in Human 20S immunoproteasome and human 20S proteasome, exhibits a high binding affinity, particularly for the β 1i subunit (0.27 μ M). Additionally, it demonstrates effective inhibition of both β 5i and β 5c subunits. Notably, inhibition of the β 5i subunit is characterized as reversible and independent of exposure time [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7899 mL	13.9497 mL	27.8995 mL
5 mM	0.558 mL	2.7899 mL	5.5799 mL
10 mM	0.279 mL	1.395 mL	2.7899 mL
50 mM	0.0558 mL	0.279 mL	0.558 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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