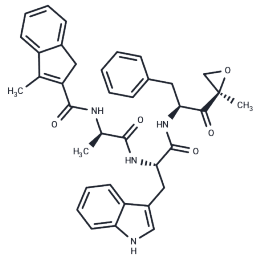
Data Sheet (Cat.No.T16568)

TargetMol

PR-924

Chemical Properties



CAS No. : 1416709-79-9

Formula: C37H38N4O5

Molecular Weight: 618.72

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	PR-924 is a selective inhibitor of tripeptide epoxyketone immunoproteasome subunit LMP-7 (IC50: 22 nM). PR-924 inhibits growth and triggers apoptosis in multiple myeloma (MM) cells. PR-924 has antitumor activities. PR-924 covalently modifies proteasomal N-terminal threonine active sites.
Targets(IC50)	Apoptosis,Proteasome

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6162 mL	8.0812 mL	16.1624 mL
5 mM	0.3232 mL	1.6162 mL	3.2325 mL
10 mM	0.1616 mL	0.8081 mL	1.6162 mL
50 mM	0.0323 mL	0.1616 mL	0.3232 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

Singh AV, et al. PR-924, a selective inhibitor of the immunoproteasome subunit LMP-7, blocks multiple myeloma cell growth both in vitro and in vivo. Br J Haematol. 2011 Jan;152(2):155-63.

Parlati F, et al. Carfilzomib can induce tumor cell death through selective inhibition of the chymotrypsin-like activity of the proteasome. Blood. 2009 Oct 15;114(16):3439-47.

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