

RP-220

Chemical Properties

CAS No. : 1541177-35-8

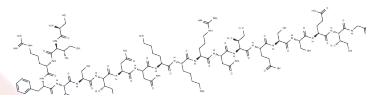
Formula: C98H166N30O32S

Molecular Weight: 2308.61

Keep away from moisture

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	RP-220 is a peptide that targets the NLRP3 enzyme and exhibits anti-inflammatory and anti-apoptotic properties. It inhibits apoptosis of renal tubular epithelial cells caused by alkaline damage by activating the MAPK signaling pathway. In mouse models of acute kidney injury (AKI), RP-220 significantly reduces NLRP3 expression, macrophage infiltration, and renal tissue damage. Additionally, RP-220 is applicable in research on systemic lupus erythematosus (SLE) and its complication lupus nephritis (LN).
Targets(IC50)	Apoptosis, NOD-like Receptor (NLR), p38 MAPK

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4332 mL	2.1658 mL	4.3316 mL
5 mM	0.0866 mL	0.4332 mL	0.8663 mL
10 mM	0.0433 mL	0.2166 mL	0.4332 mL
50 mM	0.0087 mL	0.0433 mL	0.0866 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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