

Ac-DMLD-CMK

Chemical Properties

CAS No. : 2588354-33-8

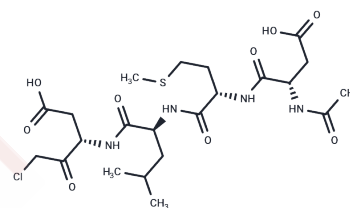
Formula: C22H35ClN4O9S

Molecular Weight: 567.053

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	Ac-DMLD-CMK is a peptide designed to target the caspase3-Gsdme signaling pathway in mice. It specifically inhibits the activation of caspase 3 and Gsdme, preventing the cleavage of Gsdme by caspase 3, which reduces pyroptosis. This process helps alleviate damage to renal tubular epithelial cells and decrease the secretion of inflammatory cytokines. Ac-DMLD-CMK can lower serum creatinine and blood urea nitrogen levels in mice induced by Cisplatin, thereby mitigating the progression of renal dysfunction. It holds potential for research into chemotherapy-induced nephrotoxicity.
Targets(IC50)	Caspase,Pyroptosis

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7635 mL	8.8176 mL	17.6351 mL
5 mM	0.3527 mL	1.7635 mL	3.527 mL
10 mM	0.1764 mL	0.8818 mL	1.7635 mL
50 mM	0.0353 mL	0.1764 mL	0.3527 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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