

Mca-AVLQSGFR-K(Dnp)-K-NH2 TFA

Chemical Properties

CAS No. :

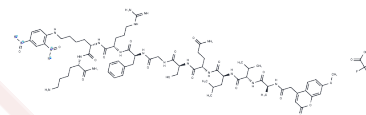
Formula: C₆₉H₉₉N₁₉O₂₀.XCF₃COOH

Molecular Weight: 1514.70

Keep away from direct sunlight

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	Mca-AVLQSGFR-K(Dnp)-K-NH ₂ serves as a fluorogenic substrate specifically designed for the main protease (Mpro) of the severe acute respiratory syndrome coronavirus (SARS-CoV), also referred to as 3C-like protease (3CLpro). This substrate, upon enzymatic cleavage by SARS-CoV Mpro, liberates 7-methoxycoumarin-4-acetyl (Mca) which emits fluorescence. This fluorescence emission, with excitation/emission peaks at 328/420 nm respectively, facilitates the quantification of SARS-CoV Mpro's catalytic activity.
Targets(IC50)	Others

Solubility Information

Solubility	20% ACN/H ₂ O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6602 mL	3.301 mL	6.602 mL
5 mM	0.132 mL	0.6602 mL	1.3204 mL
10 mM	0.066 mL	0.3301 mL	0.6602 mL
50 mM	0.0132 mL	0.066 mL	0.132 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

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

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