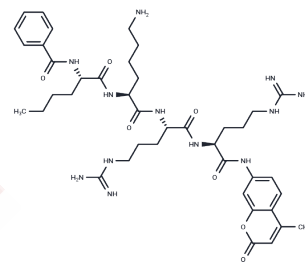


Bz-Nle-Lys-Arg-Arg-AMC

Chemical Properties

CAS No. :	863975-32-0
Formula:	C41H60N12O7
Molecular Weight:	832.99
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	Bz-Nle-Lys-Arg-Arg-AMC is a fluorescent tetrapeptide substrate for the quantitative detection of dengue virus (DV) NS2B-NS3 protease, yellow fever virus (YFV) NS3 protease and Zika virus NS3 protease activities. The rate of release of the cleavage product of the protease, AMC (7-amino-4-methylcoumarin), was observed by hydrolysis reaction to calculate the enzyme activity, with excitation/emission maxima at 340-360/440-460 nm, respectively.
Targets(IC50)	Others

Solubility Information

Solubility	DMF: 20 mg/mL (24.01 mM), Sonication is recommended. DMSO:PBS (pH 7.2) (1:1): < 1 mg/mL (insoluble or slightly soluble), < 0.1 mg/mL (insoluble) Ethanol: 20 mg/mL (24.01 mM), Sonication is recommended. DMSO: 20 mg/mL (24.01 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2005 mL	6.0025 mL	12.0049 mL
5 mM	0.2401 mL	1.2005 mL	2.401 mL
10 mM	0.120 mL	0.6002 mL	1.2005 mL
50 mM	0.024 mL	0.120 mL	0.2401 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

Phoo WW, et al. Crystal structures of full length DENV4 NS2B-NS3 reveal the dynamic interaction between NS2B and NS3. Antiviral Res. 2020 Oct;182:104900.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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