

## Boc-Val-Pro-Arg-MCA TFA

### Chemical Properties

CAS No. :

Formula: C33H46F3N7O9

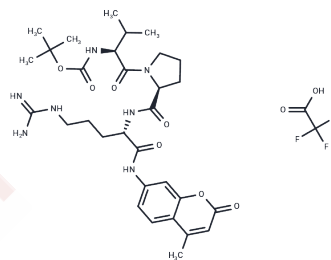
Molecular Weight: 741.76

Storage:

Store at low temperature, Keep away from moisture

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	Boc-Val-Pro-Arg-MCA TFA is a sensitive fluorescent substrate that is a thrombin substrate for the determination of trypsin-like serine protease activity.
Targets(IC50)	Others
Kinase Assay	<p>Boc-Val-Pro-Arg-MCA TFA participates in the activity assay of trypsin</p> <p>Operation steps</p> <ol style="list-style-type: none"> <li>1. Add 100 <math>\mu</math>L of diluted Trypsin enzyme to a test tube containing 800 <math>\mu</math>L of 50 mM Tris-HCl buffer (pH 8.0).</li> <li>2. Add 100 <math>\mu</math>L of 50 <math>\mu</math>M substrate Boc-Val-Pro-Arg-MCA TFA to start the reaction immediately. Then incubate at 55°C for 10 minutes.</li> <li>3. After incubation, quickly add 1.5 mL of stop agent (methanol: n-butanol: distilled water = 35:30:35) to terminate the reaction.</li> <li>4. Use a fluorescence spectrometer to measure the fluorescence intensity at an excitation wavelength of 380 nm and an emission wavelength of 450 nm.</li> </ol> <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.3481 mL	6.7407 mL	13.4814 mL
5 mM	0.2696 mL	1.3481 mL	2.6963 mL
10 mM	0.1348 mL	0.6741 mL	1.3481 mL
50 mM	0.027 mL	0.1348 mL	0.2696 mL

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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

Chodsana Sriket, et al. Low molecular weight trypsin from hepatopancreas of freshwater prawn (*Macrobrachium rosenbergii*): Characteristics and biochemical properties. Food Chemistry. Volume 134, Issue 1, 2012, Pages 351-358, ISSN 0308-8146.

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Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481