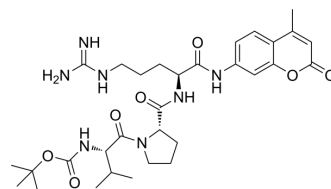


## Boc-Val-Pro-Arg-AMC

<b>Cat. No.:</b>	HY-P4326
<b>CAS No.:</b>	65147-04-8
<b>Molecular Formula:</b>	C <sub>31</sub> H <sub>45</sub> N <sub>7</sub> O <sub>7</sub>
<b>Molecular Weight:</b>	627.73
<b>Sequence:</b>	{Boc}-Val-Pro-Arg-{AMC}
<b>Sequence Shortening:</b>	{Boc}-VPR-{AMC}
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Boc-Val-Pro-Arg-MCA is a sensitive fluorogenic substrate for measuring trypsin-like serine proteases activity <sup>[1]</sup> .
<b>In Vitro</b>	<p>Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).</p> <p>Trypsin activity assay<sup>[2]</sup></p> <ol style="list-style-type: none"> <li>1. Add diluted Trypsin enzyme (100 µL) to 800 µL of 50 mM Tris-HCl buffer (pH 8.0).</li> <li>2. The reaction is immediately initiated by the addition of 100 µL of 50 µM substrate Boc-Val-Pro-Arg-MCA.</li> <li>3. Incubate at 55 °C for 10 min.</li> <li>4. Add 1.5 mL of the stopping agent (methyl alcohol:n-butyl alcohol:distilled water = 35:30:35, v/v/v) to stop the reaction.</li> <li>5. Measure the fluorescence intensity by a spectrofluorometer (excitation 380 nm, emission 450 nm).Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).</li> </ol> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

[1]. Liu JY, et al. Purification and characterization of a sarcoplasmic serine proteinase from threadfin bream *Nemipterus virgatus* muscle. *Food Chem.* 2019 Jun 30;284:198-204.

[2]. Sriket C, et al. Low molecular weight trypsin from hepatopancreas of freshwater prawn (*Macrobrachium rosenbergii*): Characteristics and biochemical properties. *Food Chemistry*, 2012, 134(1): 351-358.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA