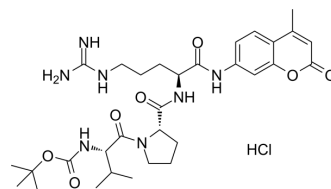


Boc-Val-Pro-Arg-AMC hydrochloride

Cat. No.:	HY-137784
CAS No.:	70375-24-5
Molecular Formula:	C ₃₁ H ₄₆ ClN ₇ O ₇
Molecular Weight:	664.19
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	Boc-Val-Pro-Arg-AMC hydrochloride is a sensitive fluorogenic substrate for measuring trypsin-like serine proteases activity ^[1] .
In Vitro	<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^[2]</p> <ol style="list-style-type: none">1. Add diluted Trypsin enzyme (100 μL) to 800 μL of 50 mM Tris-HCl buffer (pH 8.0).2. The reaction is immediately initiated by the addition of 100 μL of 50 μM substrate Boc-Val-Pro-Arg-AMC.3. Incubate at 55 °C for 10 min.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.5. Measure the fluorescence intensity by a spectrofluorometer (excitation 380 nm, emission 450 nm). <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.

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