

BOC-Val-Pro-Arg-AMC

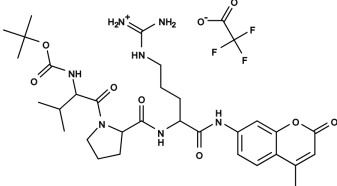
Catalog number: 13461

Unit size: 5 mg

Product Details

Storage Conditions	Freeze ($-15\text{ }^{\circ}\text{C}$), Minimize light exposure
Expiration Date	12 months upon receiving

Chemical Properties

Appearance	White solid
Molecular Weight	741.75
Soluble In	DMSO
Chemical Structure	

Spectral Properties

Excitation Wavelength	341 nm
Emission Wavelength	441 nm

Applications

BOC-Val-Pro-Arg-AMC is a sensitive fluorogenic substrate for alpha-thrombin. The non-fluorescent substrate generates a bright blue fluorescent AMC product that has an emission spectra that can be easily detected with the DAPI filter set. The K_m values of alpha-thrombin and the alpha-thrombin-staphylocoagulase complex for BOC-Val-Pro-Arg-AMC were reported to be 21 and 25 μM respectively. The K_{cat} values of alpha-thrombin and the alpha-thrombin-staphylocoagulase complex for BOC-Val-Pro-Arg-AMC were reported to be 105 and 89 s^{-1} respectively. This substrate has also been used for the rapid detection of MRSA (methicillin-resistant *Staphylococcus aureus*).