PRODUCT INFORMATION



Bz-FVR-AMC (trifluoroacetate salt)

Item No. 24845

Formal Name:	N-((S)-1-(((S)-1-(((S)-5-guanidino-1-((4-methyl- 2-oxo-2H-chromen-7-yl)amino)-1-oxopentan- 2-yl)amino)-3-methyl-1-oxobutan-2-yl) amino)-1-oxo-3-phenylpropan-2-yl)benzamide,		
	trifluoroacetate salt		NH
Synonyms:	Benzoyl-Phe-Val-Arg-AMC,		н о Гн
	Thrombin Fluorogenic Substrate III	н	
MF:	$C_{37}H_{43}N_7O_6 \bullet XCF_3COOH$	···· N	
FW:	681.8	ċ	ijŢŢŢġĊŢŢŢŢ
Purity:	≥95%	0	
Supplied as:	A lyophilized powder		• XCE COOH
Storage:	-20°C	\checkmark	
Stability:	≥4 years		

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Bz-FVR-AMC (trifluoroacetate salt) is supplied as a lyophilized powder. A stock solution may be made by dissolving the Bz-FVR-AMC (trifluoroacetate salt) in water. The solubility of Bz-FVR-AMC (trifluoroacetate salt) in water is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Bz-FVR-AMC is a fluorogenic peptide substrate for bovine cathepsins S and H, Xenopus endopeptidase XSCEP1, and esterase E-II from B. gabonica venom, among others.¹⁻³ Upon enzymatic cleavage, 7-amino-4-methylcoumarin (AMC) is released and its fluorescence can be used to quantify enzyme activity. AMC displays excitation/emission maxima of 340-360/440-460 nm, respectively.

References

- 1. Xin, X.-Q., Gunesekera, B., and Mason, R.W. The specificity and elastinolytic activities of bovine cathepsins S and H. Arch. Biochem. Biophys. 299(2), 334-339 (1992).
- 2. Darby, N.J., Lackey, D.B., and Smyth, D.G. Purification of a cysteine endopeptidase which is secreted with bioactive peptides from the epidermal glands of Xenopus laevis. Eur. J. Biochem. 195(1), 65-70 (1991).
- 3. Cloete, D., Viljoen, C.C., and Schabort, J.C. Deviation from Michaelis-Menten kinetics for esterase E-II from the venom of Bitis gabonica, using synthetic arginine amides as substrates. Toxicon 21(6), 857-869 (1983).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFFTY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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