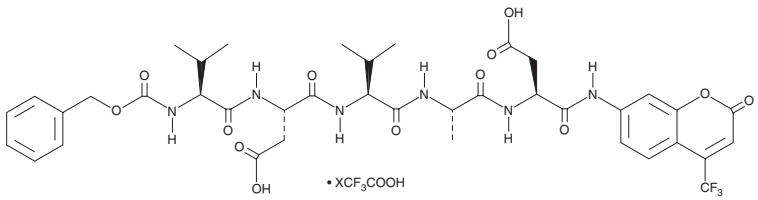
PRODUCT INFORMATION

Z-VDVAD-AFC (trifluoroacetate salt)

Item No. 27147

Formal Name:	N-[(phenylmethoxy)carbonyl]-L-valyl-L-α-aspartyl-L-valyl-L-alanyl-N-[2-oxo-4-(trifluoromethyl)-2H-1-benzopyran-7-yl]-L-α-asparagine, trifluoroacetate salt
Synonyms:	Z-Val-Asp-Val-Ala-Asp-AFC, Z-Val-Asp-Val-Ala-Asp-7-amino-4-trifluormethylcoumarin
MF:	$C_{39}H_{45}F_3N_6O_{13} \bullet XCF_3COOH$
FW:	862.8
Purity:	≥95%
Ex./Em. Max:	400/505 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

Z-VDVAD-AFC (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the Z-VDVAD-AFC (trifluoroacetate salt) in the solvent of choice. Z-VDVAD-AFC (trifluoroacetate salt) is soluble in formic acid, which should be purged with an inert gas, at a concentration of approximately 1 mg/ml.

Description

Z-VDVAD-AFC is a fluorogenic substrate for caspase-2.[1] Upon enzymatic cleavage by caspase-2, 7-amino-4-trifluoromethylcoumarin (AFC) is released and its fluorescence can be used to quantify caspase-2 activity. AFC displays excitation/emission maxima of 400/505 nm, respectively.

Reference

1. Jia, L., Patwari, Y., Srinivasula, S.M., *et al.* Bax translocation is crucial for the sensitivity of leukaemic cells to etoposide-induced apoptosis. *Oncogene* **20(35),** 4817-4826 (2001).

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