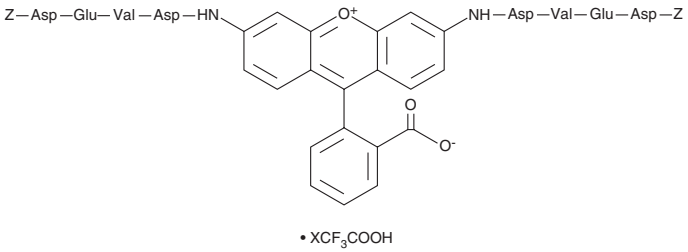
PRODUCT INFORMATION

$(Z\text{-}DEVD)_2$-Rh 110 (trifluoroacetate salt)

Item No. 27432

Formal Name:	4,4'-[9-(2-carboxyphenyl)xanthylium-3,6-diyl]*bis*[N-[(phenylmethoxy) carbonyl]-L-α-aspartyl-L-α-glutamyl-L-valyl-L-α-asparagine, inner salt, trifluoroacetate salt
Synonym:	$(Z\text{-}Asp\text{-}Glu\text{-}Val\text{-}Asp)_2$-Rhodamine 110
MF:	$C_{72}H_{78}N_{10}O_{27} \bullet XCF_3COOH$
FW:	1,515.4
Purity:	≥95%
Ex./Em. Max:	496/520 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

$(Z\text{-}DEVD)_2$-Rh 110 (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the $(Z\text{-}DEVD)_2$-Rh 110 (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. $(Z\text{-}DEVD)_2$-Rh 110 (trifluoroacetate salt) is soluble in the formic acid at a concentration of approximately 1 mg/ml.

Description

$(Z\text{-}DEVD)_2$-Rh 110 is a fluorogenic substrate for caspase-3.[1] Upon enzymatic cleavage by caspase-3, rhodamine 110 (Item No. 19061) is released and its fluorescence can be used to quantify caspase-3 activity. Rhodamine 110 displays excitation/emission maxima of 496/520 nm, respectively.

Reference

1. Liu, F., Wang, J., Yang, X., *et al.* Discovery of a highly selective STK16 kinase inhibitor. *ACS Chem. Biol.* **11(6)**, 1537-1543 (2016).

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