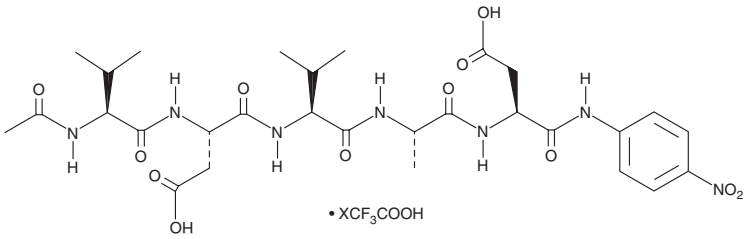
PRODUCT INFORMATION

Ac-VDVAD-*p*NA (trifluoroacetate salt)

Item No. 27134

Formal Name: N-acetyl-L-valyl-L-α-aspartyl-L-valyl-L-alanyl-N-(4-nitrophenyl)-L-α-asparagine, trifluoroacetate salt
Synonyms: Ac-Val-Asp-Val-Ala-Asp-*p*NA, Caspase-2 Chromogenic Substrate, acetyl-Val-Asp-Val-Ala-Asp-*p*-nitroanilide, acetyl-VDVAD-*p*-nitroanilide
MF: $C_{29}H_{41}N_7O_{12} \bullet XCF_3COOH$
FW: 679.7
Purity: ≥95%
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

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

Description

Ac-VDVAD-*p*NA is a colorimetric substrate for caspase-2.[1] Caspase-2 binds to and cleaves the Val-Asp-Val-Ala-Asp (VDVAD) peptide sequence to release *p*-nitroanilide (pNA), which can be quantified by colorimetric detection at 405 nm as a measure of caspase-2 activity. Ac-VDVAD-*p*NA can also be cleaved, with lower efficiency, by caspase-3 and -7.

Reference

1. Talanian, R.V., Quinlan, C., Trautz, S., *et al.* Substrate specificities of caspase family proteases. *J. Biol. Chem.* **272(15)**, 9677-9682 (1997).

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