Tribioscience

Ac-YVAD-pNA (trifluoroacetate salt)

Catalog	Unit
TBP0139-5MG	5 mg
TBP0139-10MG	10 mg

Description

Ac-YVAD-pNA is a chromogenic peptide substrate specifically designed to probe caspase-1 and caspase-4 activity. Its p-nitroaniline (pNA) moiety exhibits a strong absorbance peak near 405 nm, providing a straightforward, quantitative readout of caspase-1/-4 activity in vitro. Ac-YVAD-pNA is commonly used to investigate inflammasome activation, pyroptosis, and related inflammatory signaling pathways.

Product Details

Formal Name: N-acetyl-L-tyrosyl-L-valyl-L-alanyl-N-(4-nitrophenyl)-L-α-asparagine, trifluoroacetate salt

Alternate Names: N-Acetyl-Tyr-Val-Ala-Asp-p-Nitroanilide; Caspase-1 substrate (Chromogenic)

Molecular Formula: $C_{29}H_{36}N_6O_{10}$ • XCF_3COOH

Formula Weight: 628.6

CAS Number: 149231-66-3

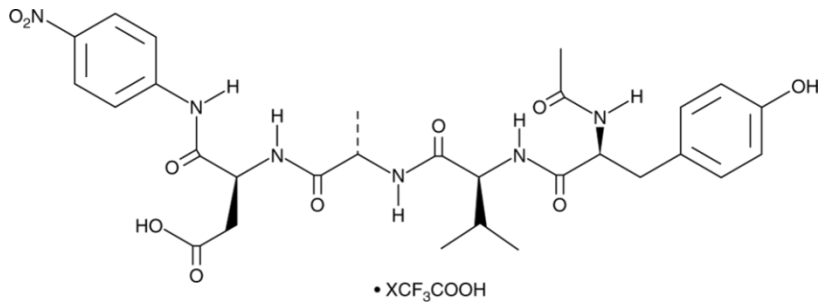
Purity: ≥95%

Formulation: powder

Storage: -20°C

Stability: >4 years

Solubility: DMF: 50 mg/ml; DMSO: 25 mg/ml; PBS (pH 7.2): 2 mg/ml



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