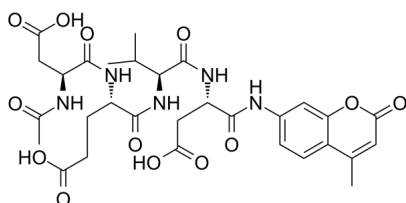


Certificate of Analysis

Catalog Number	BP10739
Product Name	Ac-DEVD-AMC

Physical and Chemical Properties

Synonyms	AC-ASP-MET-GLN-ASP-7-AMINO-4-METHYLCOUMARIN, AC-ASP-MET-GLN-ASP-AMC
CAS No.	169332-61-0
Chemical Formula	C ₃₀ H ₃₇ N ₅ O ₁₃
Molecular Weight	675.648
Solubility	H ₂ O: < 0.1 mg/mL (insoluble) DMSO: ≤10mg/ml(14.80 mM)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	 <p>The chemical structure of Ac-DEVD-AMC is shown. It is a peptide substrate for caspase-3, consisting of an N-terminal acetyl group, followed by the peptide sequence Asp-Glu-Val-Asp, and a 7-amino-4-methylcoumarin (AMC) fluorophore at the C-terminus. The structure includes stereochemical indicators (wedges and dashes) for the chiral centers in the peptide backbone.</p>

Product Information

Description	Ac-DEVD-AMC is the substrate of Caspase-3 .
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In vitro	<p>Lung fragments (about 20 mg each) are collected from rats and mice. The samples are incubated at 37°C in 50 mL KH buffer or MEM (continuously gassed with 95% O₂: 5% CO₂) for up to 6 h. At specific time points, samples are incubated in oxygenated KH buffer or MEM with 32 µM zVAD-fmk or 15 µL DMSO for 20 min (f/v=1.0 mL). Ac-DEVD-AMC (37 µM) is then added and the incubation continues for an additional 20 min. At the end of incubation, the tissue is disrupted by vigorous homogenization for 2 min, sonication for 3 min, and 10 passages through a 27-G needle. This disruption procedure quenches the Ac-DEVD-AMC cleavage reaction due to dilution. The supernatants are collected by centrifugation (~6,300g for 90 min) through a microcentrifuge filter, separated on HPLC, and analyzed for the fluorogenic AMC moiety.</p>
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Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	<p>Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.</p>

Purdue Bioscience Inc.

750 50th St, Brooklyn, NY 11220, USA

<https://www.purduebio.com>

1-877.618.7311

info@purduebio.com

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