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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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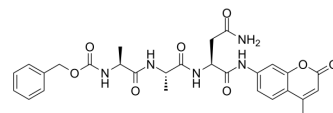
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Z-Ala-Ala-Asn-AMC

Cat. No.: HY-136626
CAS No.: 149697-16-5
Molecular Formula: C₂₈H₃₁N₅O₈
Molecular Weight: 565.57
Target: Others
Pathway: Others
Storage: Sealed storage, away from moisture
 Powder -80°C 2 years
 -20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (88.41 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (ultrasonic) (insoluble)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.7681 mL	8.8406 mL	17.6813 mL
	5 mM		0.3536 mL	1.7681 mL	3.5363 mL
	10 mM		0.1768 mL	0.8841 mL	1.7681 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (4.42 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (4.42 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (4.42 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Z-Ala-Ala-Asn-AMC (Cbz-Ala-Ala-Asn-AMC) is the legumain substrate. Overexpressed legumain in 293 HEK-Leg cells potently cleaved Cbz-Ala-Ala-Asn-AMC^[1].

In Vitro

The first legumain fluorogenic substrate Cbz-Ala-Ala-Asn-AMC based on the P3-P2-P1 sequence Ala-Ala-Asn. The synthetic substrate Cbz-Ala-Ala-Asn-AMC is effectively cleaved by *S. mansoni* legumain and human legumain with K_ms of 90 and 80 uM respectively^{[2][3]}.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Death Dis. 2020 Nov 26;11(11):1014.
- Clin Genet. 2022 Nov 13.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Stern L, Perry R, Ofek P, Many A, Shabat D, Satchi-Fainaro R. A novel antitumor prodrug platform designed to be cleaved by the endoprotease legumain. Bioconjug Chem. 2009;20(3):500-510.
- [2]. James C. Powers, et al. Propenoyl hydrazides. US7482379B2.
- [3]. Poreba M, et al. Counter Selection Substrate Library Strategy for Developing Specific Protease Substrates and Probes. Cell Chem Biol. 2016;23(8):1023-1035.

Caution: Product has not been fully validated for medical applications. For research use only.

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