

Ac2-26

Cat. No.:	HY-P1098
CAS No.:	151988-33-9
Molecular Formula:	C ₁₄₁ H ₂₁₀ N ₃₂ O ₄₄ S
Molecular Weight:	3089.43
Sequence:	Ac-Ala-Met-Val-Ser-Glu-Phe-Leu-Lys-Gln-Ala-Trp-Phe-Ile-Glu-Asn-Glu-Glu-Gln-Glu-Tyr-Val-Gln-Thr-Val-Lys Ac-AMVSEFLKQAWFIENEEQEYVQTVK
Sequence Shortening:	Ac-AMVSEFLKQAWFIENEEQEYVQTVK
Target:	NF-κB
Pathway:	NF-κB
Storage:	Sealed storage, away from moisture and light Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

SOLVENT & SOLUBILITY

In Vitro	DMSO : 20 mg/mL (6.47 mM; ultrasonic and adjust pH to 2 with HCl) H ₂ O : 8.33 mg/mL (2.70 mM; adjust pH to 8 with 0.1 N NaOH)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		0.3237 mL	1.6184 mL	3.2368 mL
		5 mM		0.0647 mL	0.3237 mL	0.6474 mL
		10 mM		---	---	---
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: ≥ 3.33 mg/mL (1.08 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2 mg/mL (0.65 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2 mg/mL (0.65 mM); Clear solution					
	4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2 mg/mL (0.65 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description

Ac2-26, an active N-terminal peptide of annexin A1 (AnxA1), attenuates ischemia-reperfusion-induced acute lung injury. Ac2-26 also decreases AnxA1 protein expression, inhibits the activation of NF- κ B and MAPK pathways in the injured lung tissue^[1].

CUSTOMER VALIDATION

- Cancer Cell. 2023 May 8;41(5):903-918.e8.
- World J Gastroenterol. 2023 Jun 14, 29(22): 3422-3439.

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REFERENCES

[1]. Liao WJ, et al. Ac2-26, an Annexin A1 Peptide, Attenuates Ischemia-Reperfusion-Induced Acute Lung Injury. Int J Mol Sci. 2017 Aug 15;18(8). pii: E1771.

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

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