

Product Data Sheet

Product Name: Ac2-26 (human) (ammonium salt)

Cat. No.: GC49263

Chemical Properties

Cas. No. N/A

OC(C=C1)=CC=C1C[C@@H](C(N[C@@H](C(C)C)C(N[C@@H](CCC(N)=O)C(N[C@@H]([C@H](O)C)C(N[C@@H](C(C)C)C(N[C@H](C(O)=O)CCCCN)=O)=O)=O)=O)=O)NC([C@H](CCC(O)=O)NC([C@H](CCC(N)=O)NC([C@H](CCC(O)=O)NC([C@H](CCC(O)=O)NC([C@H](CC(N)=O)NC([C@H](CCC(O)=O)NC([C@H]([C@@H](C)CC)NC([C@H](CC2=CC=CC=C2)NC([C@@H](NC([C@H](C)NC([C@H](CCC(N)=O)NC([C@H](CCCCN)NC([C@H](CC(C)C)NC([C@@H](NC([C@H](CCC(O)=O)NC([C@H](CO)NC([C@H](C(C)C)NC([C@H](CCSC)NC([C@H](C)NC(C)=O)=O)=O)=O)=O)=O)=O)CC3=CC=CC=C3)=O)=O)=O)=O)CC4=CNC5=CC=CC=C45)=O)=O)=O)=O)=O)=O)=O)=O)O.[NH4+]

Formula	C141H210N32O44S·NH4	M.Wt	3107.5
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Solubility	Water: soluble	Storage	-20°C
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General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
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Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.
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Structure

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—OH
 • NH₄⁺

Background

Ac2-26 is an annexin A1-mimetic peptide that corresponds to amino acids 2-26 of the N-terminus in annexin A1.¹ It binds to HEK293 cells expressing human formyl peptide receptor 1 (FPR1) or FPR2, also known as FPR-like 1 (FPRL1; EC₅₀s = 1.4 and 1.8 μM, respectively, in a radioligand binding assay), as well as inhibits polymorphonuclear leukocyte (PMN) rolling over TNF-α-stimulated human umbilical vein endothelial cells (HUVECs) when used at concentrations of 10 and 30 μM. Ac2-26 (10 and 100 μg/ml) inhibits LPS-induced production of prostaglandin E₂ and nitric oxide (NO) in rat

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

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microglial cells.² It decreases pulmonary edema in a rat model of ventilator-induced ischemia-reperfusion injury when administered at doses of 0.5 and 1 mg/kg.³

1.Hayhoe, R.P.G., Kamal, A.M., Solito, E., et al.Annexin 1 and its bioactive peptide inhibit neutrophil-endothelium interactions under flow: Indication of distinct receptor involvementBlood107(5)2123-2130(2006) 2.Minghetti, L., Nicolini, A., Polazzi, E., et al.Down-regulation of microglial cyclooxygenase-2 and inducible nitric oxide synthase expression by lipocortin 1Br. J. Pharmacol.126(6)1307-1314(1999) 3.Liao, W.-I., Wu, S.-Y., Wu, G.-C., et al.Ac2-26, an annexin A1 peptide, attenuates ischemia-reperfusion-induced acute lung injuryInt. J. Mol. Sci.18(8)1771(2017)

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