Product Data Sheet

Product Name: Ac2-26 ammonium
Cat. No.: GC74339

Chemical Properties

Cas. No.

Formula	$C_{141}H_{210}N_{32}O_{44}S.xNH_3$	M.Wt	3089.43 (free base)
Solubility	H_2O : 50 mg/mL (ultrasonic and adjust pH to 8 with NH3.H_2O)	Storage	Sealed storage, away from moisture and light, under nitrogen

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.
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Ac-AMVSEFLKQAWFIENEEQEYVQTVK (ammonium)

Background

Ac2-26 ammonium is the N-terminal peptide of annexin 1, and has anti-inflammatory activity. Ac2-26 ammonium induces a decrease in IKKβ protein in lysosomes by chaperone-mediated autophagy (CMA). Ac2-26 ammonium ameliorates lung ischemia-reperfusion injury. Ac2-26 ammonium also inhibits airway inflammation and perresponsiveness in an asthma rat model.

References:

Caution: Product has not been fully validated for medical applications. For research use only.
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[1]. Wang LM, et al. Annexin 1-derived peptide Ac2-26 inhibits eosinophil recruitment in vivo via decreasing prostaglandin D_2. Int Arch Allergy Immunol. 2011;154(2):137-48.
[2]. Gong J, et al. Ac2-26 ameliorates lung ischemia-reperfusion injury via the eNOS pathway. Biomed Pharmacother. 2019 Sep;117:109194.
[3]. Luo Z, et al. Annexin-1 Mimetic Peptide Ac2-26 Suppresses Inflammatory Mediators in LPS-Induced Astrocytes and Ameliorates Pain persensitivity in a Rat Model of Inflammatory Pain. Cell Mol Neurobiol. 2020 May;40(4):569-585.
[4]. Liu L, et al. Ac2-26 Induces IKKβ Degradation Through Chaperone-Mediated Autophagy Via HSPB1 in NCM-Treated Microglia. Front Mol Neurosci. 2018 Mar 15;11:76.

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