

Ac2-26 ammonium

Chemical Properties

CAS No. :

Formula: C141H210N32O44S.xNH3

Molecular Weight:

Keep away from moisture, Store at low temperature

Storage:

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Ac2-26 ammonium is an Annexin-A1 (AnxA1) N-terminal derived peptide with anti-inflammatory activity and alleviates liver ischemia-reperfusion injury in mice by regulating IL-22/IL-22R1/STAT3 signaling and eNOS pathways.
Targets(IC50)	NOS,IkB/IKK
In vitro	In radioligand binding assays, Ac2-26 ammonium was able to bind to HEK293 cells expressing human formyl peptide receptor 1 (FPR1) or FPR2, FPR1 (EC50=1.4 μ M) and FPR2 (EC50=1.8 μ M). Ac2-26 ammonium inhibited lipopolysaccharide (LPS)-induced prostaglandin (E2) and nitric oxide (NO) production in rat microglia. [1]
In vivo	In a rat model of ventilator-induced ischemia-reperfusion injury, Ac2-26 ammonium was able to reduce pulmonary edema when administered at a dose of 0.5-1 mg/kg. [2]

Solubility Information

Solubility	H2O: 30 mg/mL, when pH is adjusted to 8. Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Minghetti L, et al. Down-regulation of microglial cyclo-oxygenase-2 and inducible nitric oxide synthase expression by lipocortin Br J Pharmacol. 1999 Mar;126(6):1307-14.

Liao Wl, et al. Ac2-26, an Annexin A1 Peptide, Attenuates Ischemia-Reperfusion-Induced Acute Lung Injury. Int J Mol Sci. 2017 Aug 15;18(8):1771. doi: 10.3390/ijms18081771. Erratum in: Int J Mol Sci. 2018 Feb 09;19(2):E526.

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