Antileukinate
Item No. 17359

CAS Registry No.: 138559-60-1
Formal Name: N²-acetyl-L-arginyll-arginyll-L-trypophyll-L-trypophyll-L-cysteynl-L-argininamid
MF: C₄₅H₆₆N₁₈O₇S
FW: 1,003.2
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: λmax: 222, 282, 290 nm

Laboratory Procedures
For long term storage, we suggest that antileukinate be stored as supplied at -20°C. It should be stable for at least two years.

Antileukinate is supplied as a crystalline solid. A stock solution may be made by dissolving the antileukinate in the solvent of choice. Antileukinate is soluble in organic solvents such as DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of antileukinate in these solvents is approximately 5 and 1 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of antileukinate can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of antileukinate in PBS, pH 7.2, is approximately 2 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Antileukinate is a synthetic hexapeptide with an acetylated amino terminus and an amidated carboxyl terminus that inhibits the binding of CXC chemokines to the chemokine receptor CXCR2.¹,² It inhibits IL-8 binding to neutrophils (Kᵢ = 2.7-13 µM), prevents neutrophil chemotaxis and inhibits the binding of CXC chemokines to the chemokine receptor CXCR2.¹,² It inhibits IL-8 binding to neutrophils (Kᵢ = 2.7-13 µM), prevents neutrophil chemotaxis and β-glucuronidase release, and blocks IL-8-induced skin edema in rabbits.³-⁵ At 53 mg/kg, antileukinate has been shown to protect mice against acute pancreatitis and associated lung injury.²

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/17359

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent with each order to your institution.

WARRANTY AND LIMITATION OF REMEDY
Cayman Chemical Company makes no warranty or guarantees of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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