

LL-37 amide (trifluoroacetate salt) Biochemical | LL-37 biochemical

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CATALOG #
AAA227399

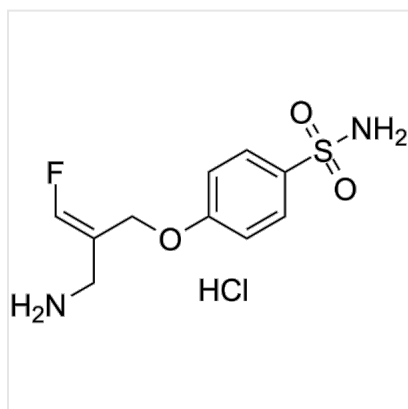
PRODUCT SYNONYMS

LL-37 amide (trifluoroacetate salt); LL-37 biochemical

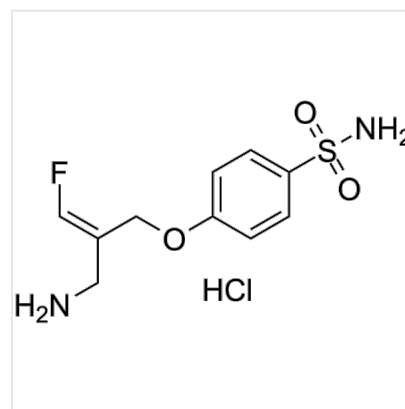
PRODUCT SPECIFICATIONS

Purity/Purification	98%
Solubility	H ₂ O: 1 mg/mL <1mg/ml refers to the product slightly soluble or insoluble
In vitro	In vivo, LL-37 inhibits cecal ligation and puncture-induced caspase-1 activation and pyroptosis of peritoneal macrophages, reduces levels of the inflammatory cytokines IL-1beta, IL-6, and TNF-alpha, and improves survival in polybacterial septic mice.
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
PXS-4681A, CAS 1478364-87-2



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ADDITIONAL INFORMATION

Related Product Information for LL-37 biochemical	LL-37 is a cationic and alpha-helical antimicrobial peptide expressed in human bone marrow, testis, granulocytes, and gingival epithelium and is upregulated in psoriatic lesions. It inhibits growth of Gram-positive E. coli D21 and Gram-negative B. megatarium in a concentration-dependent manner and LL-37 expression is induced in A549 epithelial cells, alveolar macrophages, neutrophils, and monocyte-derived macrophages following M. tuberculosis infection. LL-37 binds sheep erythrocytes coated with S. minnesota Re-LPS and induces agglutination with a minimal agglutinating concentration (MAC) of 12.1 ug/ml. It is a chemoattractant for, and can induce calcium mobilization in, human monocytes, neutrophils, and T cells that naturally express formyl peptide receptor-like 1 (FPRL1) and FPRL1-transfected HEK293 cells. LL-37 (10-15 uM) pretreatment of dengue virus type 2 (DENV-2) reduces its infectivity as well as levels of viral genomic RNA and NS1 antigen.
References	1. Jonathan S Foot, et al. PXS-4681A, a potent and selective mechanism-based inhibitor of SSAO/VAP-1 with anti-inflammatory effects in vivo. J Pharmacol Exp Ther. 2013 Nov;347(2):365-74.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/l-37-amide-trifluoroacetate-salt/227399>