

Product Data Sheet

Product Name: Lactoferrin (17-41) (acetate)

Cat. No.: GC60221

Chemical Properties

Cas. No. 2828433-30-1

Formula $C_{143}H_{226}N_{46}O_{33}S_3$ M.Wt 3183.82

Solubility DMSO : 20 mg/mL (6.28 mM);
ultrasonic and warming and heat to 60°C) Storage -20°C, protect from light

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

FKCRRWQWRMKKLGAPSITCVRRAF
(Disulfide bridge: Cys3-Cys20) (acetate salt)

Background

Lactoferrin 17-41 (Lactoferricin B) acetate, a peptide corresponding to residues 17-41 of bovine lactoferrin, has antimicrobial activity against a wide range of microorganisms, including Gram-positive and Gramnegative bacteria, viruses, protozoa, and fungi. Lactoferrin 17-41 acetate has antitumor activities[1][2].

Lactoferrin 17-41 (Lactoferricin B) acetate has an MIC of 30 µg/ml against E. coli ATCC

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

25922[1].Lactoferrin 17-41 acetate significantly stimulates apoptosis of HT-29 cells and displays cytotoxic activity on HT-29 cells[2].Lactoferrin 17-41 acetate variously regulates transcription of genes involved in the p53 signaling pathway, such as PMAIP-1, TP5313, and SFN[2].Lactoferrin 17-41 acetate can bind LPS from Gram-negative bacteria and that it can inhibit LPS induced cytokine response in human monocytic cells[1][3]. Cell Viability Assay[1] Cell Line: HT-29 cells

[1]. Samuelsen Ø, et al. Anti-complement effects of lactoferrin-derived peptides. FEMS Immunol Med Microbiol. 2004 Jun 1;41(2):141-8. [2]. Jiang R, et al. Bovine lactoferrin and lactoferricin exert antitumor activities on human colorectal cancer cells(HT-29) by activating various signaling pathways. Biochem Cell Biol. 2017 Feb;95(1):99-109. [3]. Latorre D, et al. Reciprocal interactions between lactoferrin and bacterial endotoxins and their role in the regulation of the immune response. Toxins (Basel). 2010;2(1):54-68.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA