

Recombinant Goat Lactotransferrin (LTF), N-His

Cat. No.: AP1C183

Product Type: Animal Proteins

Size: 10 µg; 50 µg; 200 µg; 1 mg; 5 mg

Product Overview

BioVenic's Recombinant Goat Lactotransferrin (LTF), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is N/A. The purity is >97% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Goat
Expression System	<i>E.coli</i>
Purity	>97% (SDS-PAGE)
Endotoxin	< 1 EU/µg
Predicted Molecular Weight	N/A
Physical State	Lyophilized
Formulation	The buffer before lyophilization is PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.

Target Information

Goat lactotransferrin is a multifunctional glycoprotein that plays a vital role in the immune system, particularly in the first line of defense against pathogens. It is known for its antimicrobial properties, including antibacterial, antiviral, and antifungal activities. Lactotransferrin can bind to iron, depriving bacteria of this essential nutrient and exerting a bacteriostatic effect. It also has the ability to directly interact with infectious microorganisms, causing cell lysis due to its positively charged amino acids interacting with anionic molecules on microbial surfaces. In goats, lactotransferrin is found in various secretions, including milk, and contributes to the overall health and well-being of the animal by supporting its immune function.

Protein	Goat Lactotransferrin (LTF)
Protein Synonym	HLF2; LF; GIG12; Lactotransferrin; Growth-inhibiting protein 12; Talalactoferrin; Lfcin-H; Kaliocin-1
Gene ID	102188524

Shipping and Storage

This product is shipped with dry ice. It is recommended to aliquote as needed and store at -80°C upon receipt. Reconstituted protein solution can be stored at 4°C for 1 week, at < -80°C for 12 months.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Aliquote the reconstituted solution to minimise freeze-thaw cycles.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.