
Product Data Sheet

Product Name: LTF Holo Human
Cat. No.: GP23843
Batch No.: 1

Product Data

Purity	>98%	Source	Rice Flour.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Lactotransferrin; Lactoferrin; Growth-inhibiting protein 12; Talalactoferrin; LTF; GIG12; LF; HLF2; Neutrophil Lactoferrin.		
Formulation	The Human Holo lactotransferrin was lyophilized from water, contains 1.66mg iron/gram Lactoferrin.		

Introduction

Lactoferrin is a glycoprotein that belongs to the transferrin family of iron binding proteins. It is found in human breast milk as well as most epithelial surface secretions including tears, nasogastric, saliva, and bronchial. Lactoferrin binds 2 molecules of iron with very high affinity. Lactoferrin inhibits bacterial growth by withholding iron, its N-terminal region is an antimicrobial peptide. Lactotransferrin acts synergistically with lysozyme to potentiate the activity of both proteins. The multifunctional protein lactoferrin has many physiological possible roles. It is often referred to as an innate defense protein and frequently serves as the first line of defense in protection against pathogens. It has been shown to have the ability to bind iron, it is a natural anti-bacterial, anti-fungal and anti-viral, it is an antioxidant and it also has immunomodulatory properties. It has many beneficial properties, which make it a good candidate for a number of product applications. Considerable research is currently going on to explain the various suggested biological functions of lactoferrin.

Stability

Recombinant Holo Lactotransferrin although stable at room temperature for 5 days, should be stored desiccated below -18°C .Please prevent freeze-thaw cycles.

Background

Recombinant Human Holo Lactoferrin produced in Plant is a glycosylated mature

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

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polypeptide sequence without signal 1-19 peptide, chain 20-712 AA. Having an approximate molecular mass of 77-80 kDa. The Human Holo Lactotransferrin is purified by proprietary chromatographic techniques.

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