



## Product Datasheet

<b>Product Name</b>	Lactoferrin Apo Human Recombinant
<b>Cata No</b>	CB501450
<b>Source</b>	<i>Rice Flour</i>
<b>Synonyms</b>	Lactotransferrin, LTF, LF, HLF2, GIG12, LTF Apo, Lactoferrin Apo, Talalactoferrin alfa

### Description

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.

Recombinant Human Apo Lactoferrin produced in Plant is a glycosylated polypeptide chain having an approximate molecular mass of 77-80 kDa. The Lactotransferrin is purified by proprietary chromatographic techniques.

### Physical Appearance

Off-white lyophilized powder.

### Purity

Greater than 90.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE.

### Formulation

The Apo lactotransferrin was lyophilized from water and contains 0.05mg iron/gram lactoferrin.

### Stability

Recombinant Apo Lactotransferrin although stable at room temperature for 5 days, should be stored desiccated below -18°C.

**Please prevent freeze-thaw cycles.**