

## Recombinant Human LTF / Holo-lactoferrin protein

**Cat. No.** LTF-155H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human Holo Lactoferrin produced in Plant is a glycosylated polypeptide chain having an approximate molecular mass of 77-80 kDa. The Human Holo Lactotransferrin is purified by proprietary chromatographic techniques.
<b>Species</b>	Human
<b>Source</b>	Rice Flour
<b>Description</b>	This gene is a member of the transferrin family of genes and its protein product is found in the secondary granules of neutrophils. The protein is a major iron-binding protein in milk and body secretions with an antimicrobial activity, making it an important component of the non-specific immune system. The protein demonstrates a broad spectrum of properties, including regulation of iron homeostasis, host defense against a broad range of microbial infections, anti-inflammatory activity, regulation of cellular growth and differentiation and protection against cancer development and metastasis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
<b>Formulation</b>	The Human Holo lactotransferrin was lyophilized from water, contains 1.64mg iron/gram Lactoferrin.
<b>Molecular Mass</b>	77-80 kDa
<b>Physical Appearance</b>	Pink lyophilized powder.

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<b>Purity</b>	Greater than 90.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
<b>Stability</b>	Recombinant Holo Lactotransferrin although stable at room temperature for 5 days, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	LTF lactotransferrin [ Homo sapiens (human) ]
<b>Official Symbol</b>	LTF
<b>Synonyms</b>	LTF; LF; HLF2; GIG12; lactotransferrin; talalactoferrin; neutrophil lactoferrin; growth-inhibiting protein 12
<b>Gene ID</b>	4057
<b>mRNA Refseq</b>	NM_001199149
<b>Protein Refseq</b>	NP_001186078
<b>MIM</b>	150210
<b>UniProt ID</b>	P02788
<b>Chromosome Location</b>	3p21.31
<b>Pathway</b>	Amyloids; Disease; Latent infection of Homo sapiens with Mycobacterium tuberculosis; Mtb iron assimilation by chelation
<b>Function</b>	DNA binding; ferric iron binding; heparin binding; serine-type endopeptidase activity

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