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# **Lactoferrin Protein (His tag)**





#### Overview

Quantity:	50 µg
Target:	Lactoferrin (LTF)
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Lactoferrin protein is labelled with His tag.

## **Product Details**

Purpose:	Recombinant Mouse Lactotransferrin/LTF Protein (His Tag)
Sequence:	Met 1-Gln 707
Characteristics:	A DNA sequence encoding the mouse LTF (AAH06904.1) (Met 1-Gln 707) was expressed, with a C-terminal polyhistidine tag.
Purity:	> 92 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.

# **Target Details**

Target:	Lactoferrin (LTF)
Alternative Name:	Lactotransferrin/LTF (LTF Products)
Background:	Background: Lactotransferrin, also known as Lactoferrin, Talalactoferrin and LTF, is a secreted protein which belongs to the transferrin family. Transferrins are iron binding transport proteins
	which can bind two Fe3+ ions in association with the binding of an anion, usually bicarbonate.

Lactotransferrin has antimicrobial activity which depends on the extracellular cation concentration. Lactoferroxins A, B and C have opioid antagonist activity. Lactoferroxin A shows preference for mu-receptors, while lactoferroxin B and lactoferroxin C have somewhat higher degrees of preference for kappa-receptors than for mu-receptors. Lactoferrin / LTF is a globular glycoprotein that is widely represented in various secretory fluids, such as milk, saliva, tears, and nasal secretions. Lactoferrin / LTF is also present in secondary granules of PMN and is secreted by some acinar cells. Lactoferrin / LTF can be purified from milk or produced recombinantly. Human colostrum has the highest concentration, followed by human milk, then cow milk. Lactoferrin / LTF is one of the components of the immune system of the body, it has antimicrobial activity (bacteriocide, fungicide) and is part of the innate defense, mainly at mucoses. In particular, lactoferrin provides antibacterial activity to human infants. Lactoferrin interacts with DNA and RNA, polysaccharides and heparin, and shows some of its biological functions in complexes with these ligands.

Synonym: Csp82,Lf,MMS10R,Ms10r

Molecular Weight:

77.2 kDa

Pathways:

Transition Metal Ion Homeostasis

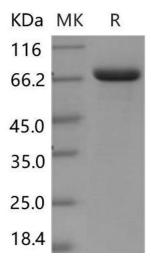
#### **Application Details**

Restrictions:

For Research Use only

### Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.



# **Western Blotting**

Image 1.