



# Recombinant Human Lactotransferrin (LTF)

<b>Product Code</b>	CSB-EP013229HU-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P02788
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	GRRRSVQWCAVSQPEATKCFQWQRNMRKVRGPPVSCIKRDSPICIQIAIEN RADAVTLD GGFIYEAGLAPYKLRPVAAEVYGTERQPRTHYYAVAVVKKGGSFQLNELQGLK SHTGLR RTAGWNVPIGTLRPFLNWTGPPEPIEAAVARFFSASCVPGADKGQFPNLCRLC AGTGENK CAFSSQEPYFSYSGAFKCLRDGAGDVAFIRESTVFEDLSDEAERDEYELLCPD NTRKPVD KFKDCHLARVPSHAVVARSVNGKEDAIWNLLRQAQEKFGKDKSPKFQFLFGSP SGQKDLLF KDSAIGFSRVPPRIDSGLYLGSGYFTAQNLKSEEEVAARRARVVWCAVGEQ ELRKCENQ WSGLSEGSVTCSSASTTEDCIALVLKGEADAMSLDGGYVYTAGKCGLVPVLA ENYKSQQS SDPDNVCVDRPVEGYLAVAVVRRSDTSLTWNSVKGKKSCHTAVDRTAGWNIP MGLLFNQT GSCKFDEYFSQSCAPGSDPRSNLALCALCIGDEQGENKCVPNSENERYYGYTGAF RCLAENAG DVAFVKDVTVLQNTDGNNEAWAKDLKLADFALLCLDGKRKPVTEARSCHLA MAPNHAVV SRMDKVERLKQVLLHQQAKFGRNGSDCPDKFCLFQSETKNLLFNDNTECLAR LHGKTTYE KYLGPQYVAGITNLKKCSTSPILLEACEFLRK
<b>Source</b>	E.coli
<b>Target Names</b>	LTF
<b>Protein Names</b>	Recommended name: Lactotransferrin Short name= Lactoferrin EC= 3.4.21.- Alternative name(s): Talalactoferrin Cleaved into the following 4 chains: 1. Kaliocin-1 2. Lactoferroxin-A 3. Lactoferroxin-B 4. Lactoferroxin-C
<b>Expression Region</b>	20-710
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</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.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.