



Recombinant Human Lactotransferrin (LTF)

Product Code	CSB-EP013229HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P02788
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	GRRRSVQWCAVSQPEATKCFQWQRNMRKVRGPPVSCIKRDSPIQCIQAI AEN RADA VTLD GGFIYEAGLAPYKLRPVAAEVYGTERQPRTHYYAVAVVKKGGSFQLNELQGLK SHTGLR RTAGWNVPIGTLRPFLNWTGPPEPIEAAVARFFSASCVPGADKGQFPNLCRLC AGTGENK CAFSSQEPYFSYSGAFKCLRDGAGDVAFIRESTVFEDLSDEAERDEYELLCPD NTRKPVD KFKDCHLARVPSHAVVARSVNGKEDAIWNLLRQAQEKFGKDKSPKFQLFGSP SGQKDLLF KDSAIGFSRVPPRIDSGLYLGSGYFTAQNLKSEEEVAARRARVWCAVGEQ ELRKC NQ WSGLSEGSVTCSSASTTEDCIALVLKGEADAMSLDGGYVYTAGKCGLVPVLA ENYKSQQS SDPDPCVDRPVEGYLAVAVVRRSDTSLTWNSVKGKKSCHTAVDRTAGWNIP MGLLFNQT GSCKFDEYFSQSCAPGSDPRS NL CALCIGDEQGENKCV PNS NERY YGYTGAF RCLAENAG DVA FVKDVTVLQNTDGNNNEAWAKDLKLAD FALLCLD GKRKPVTEARSCHLA MAPNHAVV SRMDKVERLKQVLLHQQAKFGRNGSDCPDKFCLFQSETKNLLFNDNTECLAR LHGKTTYE KYLGPQYVAGITNLKKCSTSP LLEACEFLRK
Source	E.coli
Target Names	LTF
Protein Names	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
Expression Region	20-710
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.

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.

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.