

Recombinant Human LTF Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. LTF-5074H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	LTF MS Standard C13 and N15-labeled recombinant protein (NP_002334) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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. Antimicrobial, antiviral, antifungal and antiparasitic activity has been found for this protein and its peptides. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	78.37 kDa
AA Sequence	MKLVFLVLLFLGALGLCLAGRRRRSVQWCAVSQPEATKCFQWQRNMRKVRGPPVS CIKRDSP IQCIQAI AENRADAVTL DGGFIYEAGLAPYKLRPVAAEVYGTERQPRTHYY AVAVVKKGGSFQLNELQGLKSCHTGLRRTAGWNVPIGTLRPFLNWTGPPEPIEAAV

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ARFFSASCVPGADKGQFPNLCRLCAGTGENKCAFSSQEPYFSYSGAFKCLRDGAG
 DVAFIRESTVFEDLSDEAERDEYELLCPDNTRKPVDFKDKCHLARVPSHAVVARSVN
 GKEDAIWNLLRQAQEKFGKDKSPKFQLFGSPSGQKDLLFKDSAIGFSRVPPRIDSGL
 YLGSGYFTAIQNLRKSEEEVAARRARVWCAVGEQELRKCQWVSLSEGSVTCSS
 ASTTEDCIALVLKGEADAMSLDGGYVYTAGKCGLPVLAENYKSQQSSDPDPNCVD
 RPVEGYLAVAVRRSDTSLTWNSVKGKKSCHTAVDRTAGWNIPMGLLFNQGTGSK
 FDEYFSQSCAPGSDPRSNCALCIGDEQGENKCEPNSNERYYYGTGAFRCLAENA
 GDVAFVKDVTVLQNTDGNNEAWAKDLKLADFALLCLDGKRKPVTEARSCHLAMAP
 NHAVVSRMDKVERLKQVLLHQQAKFGRNGSDCPDKFCLFQSETKNLLFNDNTECLA
 RLHGKTTYEKYLGPPQYVAGITNLKKCSTSPLEACEFLRKTRTRPLEQKLISEEDLAA
 NDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name LTF lactotransferrin [Homo sapiens (human)]

Official Symbol LTF

Synonyms LTF; lactotransferrin; HLF2; talalactoferrin; neutrophil lactoferrin; growth-inhibiting protein 12; LF; GIG12;

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Gene ID	4057
mRNA Refseq	NM_002343
Protein Refseq	NP_002334
MIM	150210
UniProt ID	P02788
SDS-PAGE	