

Recombinant Full Length Human LCTL Protein, C-Flag-tagged

Cat. No. LCTL-1508HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human LCTL Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a member of family 1 glycosidases. Glycosidases are enzymes that hydrolyze glycosidic bonds and are classified into families based on primary amino acid sequence. Most members of family 1 have two conserved glutamic acid residues, which are required for enzymatic activity. The mouse ortholog of this protein has been characterized and has a domain structure of an N-terminal signal peptide, glycosidase domain, transmembrane domain, and a short cytoplasmic tail. It lacks one of the conserved glutamic acid residues important for catalysis, and its function remains to be determined. Alternative splicing results in multiple transcript variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	64.9 kDa
AA Sequence	MKPVWVATLLWMLLLVPRLGAARKGSPEEASFYYGTFPLGFSWGVGSSAYQTEGA WDQDGKGPSIWDVFT HSGKGKVLGNETADVACDGYKQVEDIILLRELHVNHYRFS LSWPRLPTGIRAEQVNKKGIEFYSDLID ALLSSNITPIVTLHHWDLPLQLQVKYGGW QNVSMANYFRDYANLCFEAFGDRVKHWITFSDPRMAAEKGY ETGHHAPGLKLRGT GLYKAAHHIIKAHAKAWHSYNTTWRSKQQGLVGLISLNCDWGEPVDISNPKDLEAAE

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RYLQFCLGWFANPIYAGDYPQVMKDYIGRKS AEQGLEMSRLPVFSLQEKS YIKGTS
 DFLGLGHFTTRYIT ERNYP SRQG PSYQ NDRDLIELVDPNWPDLGSKWLYSVPWGF
 RRLNFAQTQYGDPP IYVMENGASQKFHC TQLCDEWRIQY LKGYINEMLKAIKDGA
 NIKGYTSWSLLDKFEWEKGYS DRYGFYYVEFNDRNKPRYPKAS VQYYKKIIIANGFP
 NPREVESWYLKALETCSINNQMLAAEPLL SHMQMVTEIVVPTVCSLCVLITAVLLM
 LLLRRQSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Transmembrane
Full Length	Full L.

GENE INFORMATION

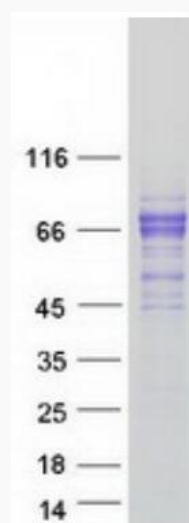
Gene Name	LCTL lactase like [Homo sapiens (human)]
Official Symbol	LCTL
Synonyms	KLG; KLPH

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Gene ID	197021
mRNA Refseq	NM_207338.4
Protein Refseq	NP_997221.2
MIM	617060
UniProt ID	Q6UWM7



Coomassie blue staining of purified LCTL protein.