

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

Cat. No. LCTL-3730H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	LCTL MS Standard C13 and N15-labeled recombinant protein (NP_997221) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 (PMID: 12084582). Alternative splicing results in multiple transcript variants.
Molecular Mass	64.9 kDa
AA Sequence	MKPVWVATLLWMLLLVPRLGAARKGSPEEASFYYGTFPLGFSWGVGSSAYQTEGA WDQDGKGPSIWDVFTTHSGKGKVLGNETADVACDGYKQVEDIILLRELHVNHYRFS LSWPRLPTGIRAEQVNKKGIEFYSDLIDALLSSNITPIVTLHHWDLPLQLLQVKYGGW QNVSMANYFRDYANLCFEAFGDRVKHWFSDPRAMAEKGYETGHHAPGLKLRGT

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GLYKAAHHIIKAHAKAWHSYNTTWRSKQQGLVGISLNCDWGEPVDISNPKDLEAAE
 RYLQFCLGWFANPIYAGDYPQVMKDYIGRKSAEQGLEMSRLPVFSLQEKSIIKGTG
 DFLGLGHFTTRYITERNYPSRQGPSYQNDRLIELVDPNWPDLGSKWLYSVPWGFR
 RLLNFAQTQYGDPIIYVMENGASQKFHCTQLCDEWRIQYLKGYINEMLKAIKDGANI
 KGYTSWSLLDKFEWEKGYSDRYGFYYVEFNDRNKPRYPKASVQYYKKIIIANGFPNP
 REVESWYLKALETCSINNQMLAAEPLLSHMQMVTEIVVPTVCSLCVLITAVLLMLLLR
 RQSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 LCTL lactase-like [Homo sapiens (human)]

Official Symbol LCTL

Synonyms LCTL; lactase-like; lactase-like protein; FLJ33279; KL lactase phlorizin hydrolase; KLG; klotho gamma; KLPH; klotho/lactase-phlorizin hydrolase-related protein;

Gene ID 197021

mRNA Refseq NM_207338

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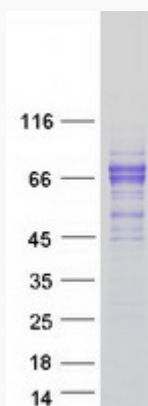
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Protein Refseq NP_997221

MIM 617060

UniProt ID Q6UWM7

SDS-PAGE



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