Recombinant Human lactase like Protein, His tagged

Cat. No. LCTL-001H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LCTL Protein with His tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	23-541 aa
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.
Tag	C-His
Molecular Mass	61 kDa
AA Sequence	RKGSPEEASFYYGTFPLGFSWGVGSSAYQTEGAWDQDGKGPSIWDVFTHSGKGK VLGNETADVACDGYYKVQEDIILLRELHVNHYRFSLSWPRLLPTGIRAEQVNKKGIEF YSDLIDALLSSNITPIVTLHHWDLPQLLQVKYGGWQNVSMANYFRDYANLCFEAFGD

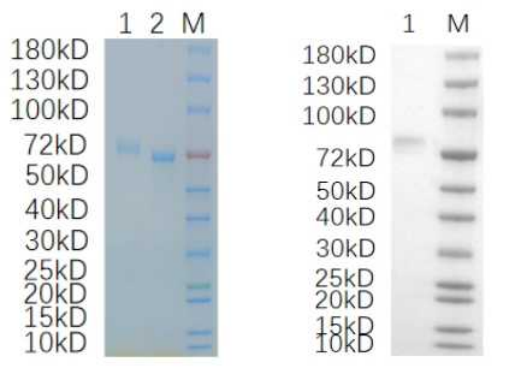
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	RVKHWITFSDPRAMAEKGYETGHHAPGLKLRGTGLYKAAHHIIKAHAKAWHSYNTT WRSKQQGLVGISLNCDWGEPVDISNPKDLEAAERYLQFCLGWFANPIYAGDYPQV MKDYIGRKSAEQGLEMSRLPVFSLQEKSYIKGTSDFLGLGHFTTRYITERNYPSRQG PSYQNDRDLIELVDPNWPDLGSKWLYSVPWGFRRLLNFAQTQYGDPPIYVMENGA SQKFHCTQLCDEWRIQYLKGYINEMLKAIKDGANIKGYTSWSLLDKFEWEKGYSDR YGFYYVEFNDRNKPRYPKASVQYYKKIIIANGFPNPREVESWYLKALETCSINNQML AAEPLLSHMQMVTEHHHHHHHH
Endotoxin	< 1 EU/μg by LAL.
Purity	> 90% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Sterile PBS, pH7.4
Concentration	1 mg/mL by BCA

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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Protein Refseq	NP_997221
MIM	617060
UniProt ID	Q6UWM7
Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal antibody) analysis profiles of purified LCTL.	 1. LCTL: 1 μg 2. BSA: 1 μg

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