

Recombinant Human LIPF, His-tagged

Cat. No. LIPF-128H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Gastric Triacylglycerol Lipase/LIPF is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Leu20-Lys398) of Human LIPF fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	20-398 a.a.
Description	Gastric Triacylglycerol Lipase (LIPF) belongs to the AB hydrolase superfamily. LIPF is an important lipase during the digestion of dietary lipids in cystic fibrosis. LIPF is involved in the digestion of dietary triglycerides in the gastrointestinal tract, and responsible for 30% of fat digestion processes occurring in human. LIPF is secreted by gastric chief cells in the fundic mucosa of the stomach, and it hydrolyzes the ester bonds of triglycerides under acidic pH conditions. LIPF acts distinct roles in neutral lipid metabolism.
AA Sequence	LFGKLHPGSPEVTMNISQMITYWGYPNEEYEVVTEDEGYILEVNRIPYGKKNSGNTGQ RPVVFLQH GLLASATNWISNLPNNSLAFILADAGYDVWLGNSRGNTWARRNLYYSP DSVEFWAFSFDMAKYD LPATIDFIVKKAGQKQLHYVGHSQGTIGFIAFSTNPSLA KRIKTFYALAPVATVKYTKSLINKL RFVPQSLFKFIFGDKIFYPHNFFDQFLATEVCSR EMLNLLCSNALFIICGFDSKNFNENTSRLDVYL SHNPAGTSVQNMFWHTQAVKSGKFEQ

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AYDWGSPVQNRMHYDQSQPPYYNVTAMNVPIAVWNGGKDL LADPQDVGLLLPKL
PNLIYHKEIPFYNHLDFIWAMDAPQEVYNDIVSMISEDKKVDHHHHHH

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by reducing SDS-PAGE.

GENE INFORMATION

Gene Name LIPF lipase, gastric [Homo sapiens]

Official Symbol LIPF

Synonyms LIPF; lipase, gastric; gastric triacylglycerol lipase; HGL; HLAL; gastric lipase; GL; MGC138477; MGC142271;

Gene ID 8513

mRNA Refseq NM_001198828

Protein Refseq NP_001185757

MIM 601980

UniProt ID P07098

Chromosome Location 10q23

Pathway Acylglycerol degradation, organism-specific biosystem; Acylglycerol degradation, conserved biosystem; Fat digestion and absorption, organism-specific biosystem; Fat

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digestion and absorption, conserved biosystem; Fatty Acid Beta Oxidation, organism-specific biosystem; Glycerolipid metabolism, organism-specific biosystem; Glycerolipid metabolism, conserved biosystem;

Function

hydrolase activity; lipid binding; retinyl-palmitate esterase activity; triglyceride lipase activity;

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