Recombinant Human LIPF, His-tagged

Cat. No. LIPF-101H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the human LIPF (AAI12273.1) (Met1-Lys398) was expressed with a C-terminal polyhistidine tag.
Species	Human
Source	Insect Cells
ProteinLength	1-398 a.a.
Description	This gene encodes gastric lipase, an enzyme involved in the digestion of dietary triglycerides in the gastrointestinal tract, and responsible for 30% of fat digestion processes occurring in human. It 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. The gene is a member of a conserved gene family of lipases that play distinct roles in neutral lipid metabolism. Several transcript variants encoding different isoforms have been found for this gene.
Predicted N Terminal	Leu 20
Form	Lyophilized from sterile PBS, pH 7.4.
Molecular Mass	The secreted recombinant human LIPF consists of 389 amino acids and predicts a molecular mass of 44.6 KDa. The apparent molecular mass of the protein is approximately 45 KDa in SDS-PAGE under reducing conditions.

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Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Storage	Store it under sterile conditions at -70℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	LIPF lipase, gastric [Homo sapiens (human)]
Official Symbol	LIPF
Synonyms	LIPF; GL; HGL; HLAL; lipase, gastric; gastric triacylglycerol lipase; gastric lipase; EC 3.1.1.3
Gene ID	8513
mRNA Refseq	NM_001198829
Protein Refseq	NP_001185758
MIM	601980
UniProt ID	P07098
Chromosome Location	10q23.31

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Pathway	Acylglycerol degradation; Fat digestion and absorption; Fatty Acid Beta Oxidation
Function	lipid binding; retinyl-palmitate esterase activity; triglyceride lipase activity

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