Gastric lipase Protein, Human (HEK293, His)

Cat. No.:	HY-P70262
Synonyms:	rHuGastric triacylglycerol lipase/LIPF, His ; Gastric Triacylglycerol Lipase; GL; Gastric Lipase; LIPF
Species:	Human
Source:	HEK293
Accession:	AAI12273.1 (L20-K398)
Gene ID:	8513
Molecular Weight:	Approximately 53.85 kDa

PROPERTIES

AA Sequence	L F G K L H P G S P E V T M N I S Q M I T Y W G Y P N E E Y E V V T E D G Y I L E V N R I P Y G K K N S G N T G Q R P V V F L Q H G L L A S A T N W I S N L P N N S L A F I L A D A G Y D V W L G N S R G N T W A R R N L Y Y S P D S V E F W A F S F D E M A K Y D L P A T I D F I V K K T G Q K Q L H Y V G H S Q G T T I G F I A F S T N P S L A K R I K T F Y A L A P V A T V K Y T K S L I N K L R F V P Q S L F K F I F G D K I F Y P H N F F D Q F L A T E V C S R E M L N L L C S N A L F I I C G F D S K N F N T S R L D V Y L S H N P A G T S V Q N M F H W T Q A V K S G K F Q A Y D W G S P V Q N R M H Y D Q S Q P P Y Y N V T A M N V P I A V W N G G K D L L A D P Q D V G L L L P K L P N L I Y H K E I P F Y N H L D F I W A M D A P Q E V Y N D I V S M I S E D K K
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 25 mM Tris-HCl, 100 mM Glycine, 10% Glycerol, pH 7.3.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	Gastric lipase is an enzyme that catalyzes the hydrolysis of triacylglycerols, breaking them down into free fatty acids,

diacylglycerol, monoacylglycerol, and glycerol. This hydrolytic activity plays a crucial role in the digestion of dietary fats in the stomach. Gastric lipase exhibits a preference for hydrolyzing the sn-3 position of triacylglycerol molecules. By selectively targeting specific bonds within triacylglycerols, gastric lipase contributes to the generation of smaller lipid molecules that can be further processed and absorbed during the digestive process. It has to emphasize the enzyme's substrate specificity and its significance in the initial steps of fat digestion.

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