
Product Data Sheet

Product Name: LIPG Human
 Cat. No.: GP21883
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	LIPG; Lipase Endothelial; EDL; EL; Endothelial Cell-Derived Lipase; EC 3.1.1.3; PRO719; Endothelial Lipase; Lipoprotein Lipase H; EC 3.1.1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSSPVVFGP EGRLEDKLNK PKATQTEVKP SVRFNLRTSK DPEHEGCYLS VGHSQPLEDC SFNMTAKTFF IHHGWTMSGI FENWLHKLVS ALHTREKDAN VVVVDWLPLA HQLYTDVNN TRVVGHSIAR MLDWLQEKDD FSLGNVHLIG YSLGAHVAGY AGNFVKGTVG RITGLDPAGP MFEGADIHKR LSPDDADFVD VLHTYTRSGF LSIGIQMPVG HIDIYPNGGD FQPGCGLNDV LGSIAYGTTT EVVKCEHERA VHLFVDSLNV QDKPSFAFQC TDSNRFKKGI CLSCRKNRCN SIGYNAKKMR NKRNSKMYLK TRA.		
Formulation	The LIPG solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.		

Introduction

Lipase Endothelial (LIPG) has extensive phospholipase activity and may be involved in lipoprotein metabolism and vascular biology. The LIPG protein is considered a member of the TG lipase family through its sequence and characteristic lid region which provides substrate specificity for enzymes of the TG lipase family. In addition, the LIPG has triglyceride lipase activities. LIPG hydrolyzes HDLs more efficiently than other lipoproteins.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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LIPG Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 343 amino acids (21-340) and having a molecular mass of 38kDa. LIPG is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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