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**Product Data Sheet**


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Product Name: LIPG Human, HEK

Cat. No.: GP21884

Batch No.: 1

**Product Data**

Purity	>98%	Source	HEK 293.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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	<p>ASSPVPGPE GRLEDKLHKP KATQTEVKPS VRFNLRTSKD PEHEGCYLSV  GHSQPLEDCS FNMTAKTFFI IHGWTMSGIF ENWLHKLKLSA LHTREKDANV  VVVDWLPLAH QLYTDAVNNT RVVGHSIARM LDWLQEKDDF SLGNVHLIGY  SLGAHVAGYA GNFVKGTVGR ITGLDPAGPM FEGADIAHKRL SPDDADFVDV  LHTYTRSFGL SIGIQMPVGH IDIYPNGGDF QPGCGLNDVL GSIAYGTITE  VVKCEHERAV HLFVDSLQNQ DKPSFAFQCT DSNRFKKGIC LSCRKNRCNS  IGYNAKKMRN KRNSKMYLKT RAGMPFRVYH YQMKIHVFSY KNMGEIEPTF  YVTLYGTNAD SQTLPLEIVE RIEQNATNTF LUYTEEDLGD LLKIQLTWEG  ASQSWYNLWK EFRSYLSQPR NPGRELNIRR IRVKSGETQR KLTFCTEDPE  NTSISPGREL WFRKCRDGWR MKNETSPTVE LP KLHHHHHH.</p>		
Solubility	It is recommended to add 200 $\mu$ l deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. LIPG is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	LIPG was filtered (0.4 $\mu$ m) and lyophilized from 0.5mg/ml solution in phosphate buffered saline pH 7.5 (PBS), 1% (w/v) Sucrose and 4% (w/v) Mannitol.		

**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

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

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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. LIPG also binds heparin.

### Stability

Store lyophilized protein at  $-20^{\circ}\text{C}$ . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at  $4^{\circ}\text{C}$  for a limited period of time; it does not show any change after two weeks at  $4^{\circ}\text{C}$ .

### Background

LIPG Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain (Ser21-Pro500) containing a total of 490 amino acids, having a calculated molecular mass of 55.8kDa. LIPG is fused to a 2 aa N-terminal linker, a 2 aa C-terminal linker and a 6 aa His tag at C-Terminus.

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