Datasheet for ABIN7126037

Lipoprotein Lipase Protein (LPL) (full length) (rho-1D4 tag)

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Overview

Quantity:	0.5 mg
Target:	Lipoprotein Lipase (LPL)
Protein Characteristics:	full length
Origin:	CHO cells
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Lipoprotein Lipase protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys), Functional Studies (Func)

Product Details

Sequence:	MAAADGGRDF TDIESKFALR TPDDTAEDNC HLIPGIAESV SNCHFNHSSK TFVVIHGWTV TGMYESWVPK LVAALYKREP DSNVIVVDWL YRAQQHYPVS AGYTKLVGND VARFINWMEE EFNYPLDNVH LLGYSLGAHA AGVAGSLTNK KVNRITGLDP AGPNFEYAEA PSRLSPDDAD FVDVLHTFTR GSPGRSIGIQ KPVGHVDIYP NGGTFQPGCN IGEAIRVIAE RGLGDVDQLV KCSHERSIHL FIDSLLNEEN PSKAYRCNSK EAFEKGLCLS CRKNRCNNVG YEINKVRAKR SSKMYLKTRS QMPYKVFHYQ VKIHFSGTES DKQLNQAFEI SLYGTVAESE NIPFTLPEVS TNKTYSFLIY TEVDIGELLM MKLKWKSDSY FSWSDWWSSP GFVIEKIRVK AGETQKKVIF CAREKVSHLQ KGKDSAVFVK CHDKSLKKSG **Sequence without tag. The location of the tag depends on protein. You may also submit your preference when ordering.**
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • CHO Lipoprotein lipase (LPL) Protein (raised in Insect Cells) purified by multi-step, protein-

Product Details

	specific process to ensure crystallization grade. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a custom-made protein and will be made for the first time for your order. This protein will be produced on the basis of on a Custom Service Project. We will make sure that every step in the production is successful from the design of the expression plasmid to the expression and purification of the final protein. Our experts in the lab will ensure that you receive a correctly folded protein. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Three step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot. 3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Endotoxins have not been removed. Please contact us if you require an endotoxin-free version of this product.
Grade:	Crystallography grade
Biological Activity Comment:	Protein has not been tested for activity yet.

Target Details

Target:	Lipoprotein Lipase (LPL)
Abstract:	LPL Products
Background:	Key enzyme in triglyceride metabolism. Catalyzes the hydrolysis of triglycerides from circulating chylomicrons and very low density lipoproteins (VLDL), and thereby plays an

Target Details

	important role in lipid clearance from the blood stream, lipid utilization and storage. Mediates margination of triglyceride-rich lipoprotein particles in capillaries. Recruited to its site of action on the luminal surface of vascular endothelium by binding to GPIHBP1 and cell surface heparan sulfate proteoglycans. {ECO:0000256|RuleBase:RU362020}.
UniProt:	G3H6V7
Pathways:	Lipid Metabolism

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	150 mM NaCL, 20 mM NaH2PO4 pH 7.4, 10 % glycerol. Note: Isoelectric point of protein taken into account regarding pH .
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)