Recombinant Rat Low Density Lipoprotein Receptor-Related Protein Associated Protein 1, His-tagged

Cat. No. Lrpap1-1252R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RecombinantRat Lrpap1 is a single, non-glycosylated polypeptide chain and contains 6xHis tag and 1xC-myc.
Species	Rat
Source	E.coli
Description	Lrpap1 isinvolved with trafficking of certain members of the LDL receptor familyincluding LRP1 and LRP2. It is a glycoprotein that binds to thealpha-2-macroglobulin receptor, as well as to other members of the low densitylipoprotein receptor family. It acts to inhibit the binding of all knowligands for these receptors, and may prevent receptor aggregation anddegradation in the endoplasmic reticulum, thereby acting as a molecularchaperone. It may be under the regulatory control of calmodulin, since it isable to bind calmodulin and be phosphorylated by calmodulin-dependent kinaseII.
Form	RecombinantLrpap1, at aconcentration of 1 mg/ml, was lyophilized from a sterile solution containingTBS, pH 7.5 + 0.1% BSA + 0.09% NaN3. Precaution: Sodium azide is a poisonousand hazardous substance which should be handled by trained staff only.
Molecular Weight	38.862 kDa
Purity	> 95.0% asdetermined by RP-HPLC and SDS-PAGE analyses.

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Endotoxin Level	Lessthan 0.1 ng/μg (1 EU/μg) of Rat Lrpap1.
Reconstitution	Centrifugevial prior to opening. First add sterile distilled water to the vial to fullysolubilize the protein to a concentration not less than 100 μg/ml. Aftercomplete solubilizationof the protein, it can be further diluted to other aqueous solutions.
Storage	Storelyophilized protein at -20°C to -80°C. Reconstituted protein is stable for 1week at 2-4°C. For long term storage, aliquot and store at -20°C to -80°Cwith a carrier protein (0.1% HSA or BSA) as a stabilizer. Please note thatthe addition of any carrier protein into this product may produce unwantedendotoxin. This depends upon the particular application employed. Avoidrepeated freeze-thaw cycles.
OfficialSymbol	Lrpap1

GENE INFORMATION

Gene Name	Lrpap1low density lipoprotein receptor-related protein associated protein 1 [Rattusnorvegicus]
Synonyms	Lrpap1; lowdensity lipoprotein receptor-related protein associated protein 1; alpha-2-macroglobulinreceptor-associated protein; RAP; alpha-2-MRAP; gp330-binding 45 kDa protein;low density lipoprotein receptor-related protein-associated protein 1
Gene ID	116565
mRNA Refseq	NM_001169113
Protein Refseq	NP_001162584
UniProt ID	Q99068

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Chromosome Location	14q21
Function	heparinbinding; lipase binding; unfolded protein binding; low-density lipoproteinparticle receptor binding; asialoglycoprotein receptor activity; receptorantagonist activity; very-low-density lipoprotein particle receptor binding
PDB rendering basedon 1lre.	

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