

Recombinant Human LRP1 protein, His-tagged

Cat. No. LRP1-5720H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human LRP1 aa. (Val4441~Ala4544 (Accession # Q07954)) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Val4441~Ala4544
Description	This gene encodes a member of the low-density lipoprotein receptor family of proteins. The encoded preproprotein is proteolytically processed by furin to generate 515 kDa and 85 kDa subunits that form the mature receptor (PMID: 8546712). This receptor is involved in several cellular processes, including intracellular signaling, lipid homeostasis, and clearance of apoptotic cells. In addition, the encoded protein is necessary for the alpha 2-macroglobulin-mediated clearance of secreted amyloid precursor protein and beta-amyloid, the main component of amyloid plaques found in Alzheimer patients. Expression of this gene decreases with age and has been found to be lower than controls in brain tissue from Alzheimer's disease patients.
Form	Freeze-dried powder
Molecular Mass	15kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 5.8.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH 7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	LRP1 LDL receptor related protein 1 [Homo sapiens (human)]
Official Symbol	LRP1
Synonyms	LRP1; LDL receptor related protein 1; APR; KPA; LRP; A2MR; CD91; APOER; LRP1A; TGFBR5; IGFBP3R; prolow-density lipoprotein receptor-related protein 1; TbetaR-V/LRP-1/IGFBP-3 receptor; alpha-2-macroglobulin receptor; apolipoprotein E receptor; low density lipoprotein receptor-related protein 1; type V tgf-beta receptor
Gene ID	4035

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mRNA Refseq	NM_002332.2
Protein Refseq	NP_002323.2
UniProt ID	Q07954

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