

Recombinant Human LDLR protein, His-tagged

Cat. No. LDLR-5715H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human LDLR aa. (Thr497~Thr742) fused with N-terminal His tag was produced in E. coli cells.

Species Human

Source E.coli

ProteinLength Thr497~Thr742

Description The low density lipoprotein receptor (LDLR) gene family consists of cell surface proteins involved in receptor-mediated endocytosis of specific ligands. Low density lipoprotein (LDL) is normally bound at the cell membrane and taken into the cell ending up in lysosomes where the protein is degraded and the cholesterol is made available for repression of microsomal enzyme 3-hydroxy-3-methylglutaryl coenzyme A (HMG CoA) reductase, the rate-limiting step in cholesterol synthesis. At the same time, a reciprocal stimulation of cholesterol ester synthesis takes place. Mutations in this gene cause the autosomal dominant disorder, familial hypercholesterolemia. Alternate splicing results in multiple transcript variants.

Form Freeze-dried powder

Molecular Mass 31kDa 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 7.7.
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
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.
Concentration	200µg/mL
Storage buffer	100mM NaHCO ₃ , 500mM NaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Reconstitution	Reconstitute in 100mM NaHCO ₃ , 500mM NaCl (pH8.3) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	LDLR low density lipoprotein receptor [Homo sapiens (human)]
Official Symbol	LDLR
Synonyms	LDLR; low density lipoprotein receptor; FH; FHC; LDLCQ2; low-density lipoprotein receptor; LDL receptor; low-density lipoprotein receptor class A domain-containing protein 3

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Gene ID	3949
mRNA Refseq	NM_000527.4
Protein Refseq	NP_000518.1
UniProt ID	P01130

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