

LDLR Protein, Mouse (Biotinylated, A23V, C27G, HEK293, His)

Cat. No.:	HY-P73838
Synonyms:	Low-density lipoprotein receptor; LDLR; LDL Receptor
Species:	Mouse
Source:	HEK293
Accession:	P35951 (M1-R790, A23V, C27G)
Gene ID:	16835
Molecular Weight:	Approximately 85.7 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The LDLR protein plays a crucial role in binding to LDL, the primary lipoprotein responsible for transporting cholesterol in the bloodstream, and facilitating its internalization into cells through endocytosis. To undergo internalization, receptor-ligand complexes must first cluster into clathrin-coated pits. Additionally, LDLR interacts with various proteins, including DAB2 and LDLRAP1 through its NPXY motif, with the interaction impaired by tyrosine phosphorylation of the NPXY motif. It also interacts with ARRB1 and SNX17, further contributing to its functional versatility. Furthermore, LDLR interacts with the immature form of PCSK9, aiding in the regulation of LDL cholesterol levels.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA