

## Recombinant Human LRP2 Protein, His tagged

**Cat. No.** LRP2-11H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human LRP2 Protein (Glu2698-Gly3110) with a C-terminal 6-His tag was expressed in Mouse myeloma cell line.
<b>Species</b>	Human
<b>Source</b>	Mouse myeloma cell line
<b>ProteinLength</b>	2698-3110 aa
<b>Description</b>	<p>The protein encoded by this gene, low density lipoprotein-related protein 2 (LRP2) or megalin, is a multi-ligand endocytic receptor that is expressed in many different tissues but primarily in absorptive epithelial tissues such as the kidney. This glycoprotein has a large amino-terminal extracellular domain, a single transmembrane domain, and a short carboxy-terminal cytoplasmic tail. The extracellular ligand-binding-domains bind diverse macromolecules including albumin, apolipoproteins B and E, and lipoprotein lipase. The LRP2 protein is critical for the reuptake of numerous ligands, including lipoproteins, sterols, vitamin-binding proteins, and hormones. This protein also has a role in cell-signaling; extracellular ligands include parathyroid hormones and the morphogen sonic hedgehog while cytosolic ligands include MAP kinase scaffold proteins and JNK interacting proteins. Recycling of this membrane receptor is regulated by phosphorylation of its cytoplasmic domain. Mutations in this gene cause Donnai-Barrow syndrome (DBS) and facio-oculoacoustico-renal syndrome (FOAR). The amino acid 2698-3110 encodes the third class A motif cluster in human Megalin, termed Megalin C3. Human Megalin C3</p>

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	shares 77% and 74% identity with mouse and rat Megalin C3.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in PBS.
<b>Molecular Mass</b>	47 kDa
<b>Endotoxin</b>	< 1.0 EU/µg of the protein by the LAL method.
<b>Purity</b>	> 85%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
<b>Shipping</b>	The product is shipped at ambient temperature.
<b>Reconstitution</b>	Reconstitute at 250 µg/mL in PBS.
<b>Reference</b>	1. Christensen, E. I. and Birn, H. (2002) Nat. Rev. Mol. Cell Biol 3:256. 2. Saito, A. et al. (1994) Proc. Natl. Acad. Sci. U. S. A. 91:9725 3. Kantarci, S. et al. (2007) Nat. Genet 39:957.
<b>N-terminal Sequence Analysis</b>	Glu2698
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	LRP2 LDL receptor related protein 2 [ Homo sapiens (human) ]

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Official Symbol</b>	LRP2
<b>Synonyms</b>	LRP2; LDL receptor related protein 2; DBS; GP330; LRP-2; low-density lipoprotein receptor-related protein 2; Heymann nephritis antigen homolog; calcium sensor protein; glycoprotein 330; megalin
<b>Gene ID</b>	4036
<b>mRNA Refseq</b>	NM_004525
<b>Protein Refseq</b>	NP_004516
<b>MIM</b>	600073
<b>UniProt ID</b>	P98164

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA