

Recombinant Human LGALS3 protein, GST-tagged

Cat. No. LGALS3-453H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human LGALS3(1 - 250 aa) fused with GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1 - 250 aa
Description	This gene encodes a member of the galectin family of carbohydrate binding proteins. Members of this protein family have an affinity for beta-galactosides. The encoded protein is characterized by an N-terminal proline-rich tandem repeat domain and a single C-terminal carbohydrate recognition domain. This protein can self-associate through the N-terminal domain allowing it to bind to multivalent saccharide ligands. This protein localizes to the extracellular matrix, the cytoplasm and the nucleus. This protein plays a role in numerous cellular functions including apoptosis, innate immunity, cell adhesion and T-cell regulation. The protein exhibits antimicrobial activity against bacteria and fungi. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Oct 2014] Annotation information Note: GeneID 3958 had the official symbol LGALS2 and was identified as the human homolog of mouse Mac-2 (macrophage galactose-specific lectin) in M35368.1 and PMID: 2402511. The official symbol for this gene is now LGALS3.

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Form	Protein lyophilized in sterile PBS (58 mM Na ₂ HPO ₄ , 17 mM NaH ₂ PO ₄ , 68 mM NaCl, 100 mM GSH, pH 8.0). Trehalose (5-8%) and mannitol (5-8%) protectants were added before lyophilization.
AA Sequence	MADNFSLHDALSGSGNPNPQGWPGAWGNQPAGAGGYPGASYPGAYPGQAPPGA YPGQAPPGAYPGAPGAYPGAPAGVYPGPPSGPGAYPSSGQPSATGAYPATGPY GAPAGPLIVPYNLPLPGGVVPRMLITILGTVKPNANRIALDFQRGNDVAFHFNPRFNE NNRRVIVCNTKLDNNWGREERQSVFPFESGKPFKIQLVEPDHFKVAVNDAHLLQY NHRVKKLNEISKLGISGDIDLTASAYTMI
Purity	75%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Storage	Store for up to 12 months at -20 centigrade to -80 centigrade as lyophilized powder. Storage of Reconstituted Protein: Short-term storage: Store at 2-8 centigrade for two weeks. Long-term storage: Aliquot and store at -20 centigrade to -80 centigrade for up to 6 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.
Reconstitution	Reconstitute at 0.25 g/μl in 200 μl sterile water for short-term storage. Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

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GENE INFORMATION

Gene Name	LGALS3 lectin, galactoside-binding, soluble, 3 [Homo sapiens]
Official Symbol	LGALS3
Synonyms	LGALS3; lectin, galactoside-binding, soluble, 3; LGALS2; galectin-3; galectin 3; GALIG; MAC 2; lectin L-29; 35 kDa lectin; MAC-2 antigen; IgE-binding protein; laminin-binding protein; galactose-specific lectin 3; carbohydrate-binding protein 35; L31; GAL3; MAC2; CBP35; GALBP;
Gene ID	3958
mRNA Refseq	NM_001177388
Protein Refseq	NP_001170859
MIM	153619
UniProt ID	P17931
Chromosome Location	14q22.3
Pathway	Advanced glycosylation endproduct receptor signaling, organism-specific biosystem; Hedgehog signaling events mediated by Gli proteins, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem;
Function	IgE binding; protein binding; sugar binding;

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