

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.

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

| | |
|-----------------------|--|
| 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 | MADNFSLHDALSGSGNPNPQGWPWGNQAGAGGYPGASYPGAYPGQAPPGA YPGQAPPGAYPGAPGAYPGAPAGVYPGPPSGPGAYPSSGQPSATGAYPATGPY GAPAGPLIVPYNLPLPGGVVPRMLITILGTVKPNANRIALDFQRGNDVAFHFNPRFNE NNRRVIVCNTKLDNNWGREERQSVFPFESGKPFKIQLVEPDHFKVAVNDAHLLQY NHRVKKLNEISKLGISGDIDLTSASYTMI |
| 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. |

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

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; |

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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