

Active Recombinant Human LGALS4 Protein (Ala2-Ile323), N-His tagged, Animal-free, Carrier-free

Cat. No. LGALS4-192H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Human LGALS4 Protein (Ala2-Ile323) with N-His tag was expressed in E. coli and Animal-free as well as Carrier-free. |
| Species | Human |
| Source | E.coli |
| ProteinLength | Ala2-Ile323 |
| Description | <p>Galectin-4 (Gal-4) is a lectin family member and is one of the tandem repeat-type galectins containing two carbohydrate recognition domains (CRD) connected by a linker region in a single peptide chain. The CRD is responsible for β-galactoside binding, and several binding partners for galectin-4 have been identified, including human blood group antigens, glycoproteins, mucin like membrane MUC1, glycosphingolipids, and sulfated cholesterol. Galectin-4 is constitutively presented in the intestine and stomach, uterine epithelial cells, blood vessel walls, hippocampal and cortical neurons. It serves important functions in numerous biological activities including lipid raft stabilization, protein apical trafficking, cell adhesion, wound healing, intestinal inflammation, and host defense.</p> |
| Form | Lyophilized |
| Bio-activity | Measured by its ability to agglutinate human red blood cells. The ED50 for this effect is < 8 |

 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

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| | µg/mL. |
| Molecular Mass | The protein has a calculated MW of 36.8 kDa. The protein migrates as 37 kDa under reducing condition (SDS-PAGE analysis). |
| Endotoxin | < 0.1 EU/µg of the protein by the LAL method. |
| Purity | >98% as determined by SDS-PAGE analysis. |
| Storage | This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles. |
| Storage Buffer | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. |
| Reconstitution | It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved. |
| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage. |

GENE INFORMATION

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| Gene Name | LGALS4 lectin, galactoside-binding, soluble, 4 [Homo sapiens (human)] |
| Official Symbol | LGALS4 |
| Synonyms | LGALS4; lectin, galactoside-binding, soluble, 4; galectin-4; GAL4; galectin 4; gal-4; antigen NY-CO-27; lactose-binding lectin 4; L-36 lactose-binding protein; L36LBP; |

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|----------------|-----------|
| Gene ID | 3960 |
| mRNA Refseq | NM_006149 |
| Protein Refseq | NP_006140 |
| MIM | 602518 |
| UniProt ID | P56470 |

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