

Active Recombinant Human LGALS3 Protein (Ala2-Ile250), N-His tagged, Animal-free, Carrier-free

Cat. No. LGALS3-191H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Human LGALS3 Protein (Ala2-Ile250) with N-His tag was expressed in E. coli and Animal-free as well as Carrier-free. |
| Species | Human |
| Source | E.coli |
| ProteinLength | Ala2-Ile250 |
| Description | <p>Galectin-3 (Gal-3) is one of the lectin family members, which is the only chimera-type galectin, containing one carbohydrate recognition domain (CRD) connected to a long, flexible N-terminal domain. The C-terminal CRD is responsible for β-galactoside binding, and the N-terminal domain is essential for its multimerization, and interaction with other intracellular proteins. Galectin-3 is predominantly presented in the cytoplasm and expressed on the cell surface, and then often secreted into biological fluids, such as serum and urine. Numerous studies have indicated that galectin-3 plays a crucial role in cell proliferation, apoptosis, gene expression, immune surveillance, inflammation, fibrosis, and host defense.</p> |
| Form | Lyophilized |
| Bio-activity | Measured by its ability to chemoattract human PBMC using a concentration range of 2.5-25 $\mu\text{g}/\text{mL}$. Note: Results may vary from different PBMC donors. |

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| Molecular Mass | The protein has a calculated MW of 27 kDa. The protein migrates as 32 kDa under reducing condition (SDS-PAGE analysis). |
| Endotoxin | < 0.1 EU/μg of the protein by the LAL method. |
| Purity | >95% 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 | LGALS3 lectin, galactoside-binding, soluble, 3 [Homo sapiens (human)] |
| 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; |

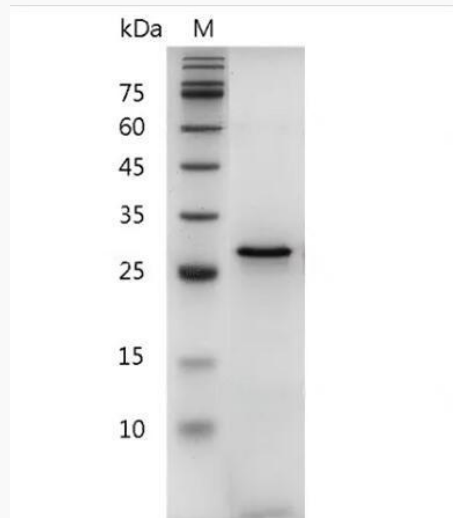
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| Gene ID | 3958 |
| mRNA Refseq | NM_001177388 |
| Protein Refseq | NP_001170859 |
| MIM | 153619 |
| UniProt ID | P17931 |

**SDS-PAGE analysis
of recombinant
human Galectin-3.**



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