Active Recombinant Human LGALS1 Protein (Ala2-Asp135), N-His tagged, Animal-free, Carrier-free

Cat. No. LGALS1-189H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LGALS1 Protein (Ala2-Asp135) with N-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Ala2-Asp135
Description	Galectin-1 (Gal-1) is a lectin family member. Galectin-1 contains one carbohydrate recognition domain (CRD), responsible for β-galactoside binding, and is biologically active as homodimers. Several binding partners for galectin-1 have been identified, including CD45, CD43, CD69, pre-BCR, and vascular endothelial Growth Factors R2. Galectin-1 is constitutively presented in the immune system and other tissues, contributing to cell growth, proliferation, and apoptosis. The galectin-1 plays a central role in regulating acute and chronic inflammatory responses.
Form	Lyophilized
Bio-activity	Measured by its ability to agglutinate human red blood cells. The ED50 for this effect is < 2 μg/mL.
Molecular Mass	The protein has a calculated MW of 15.5 kDa. The protein migrates as 15 kDa under reducing condition (SDS-PAGE analysis).

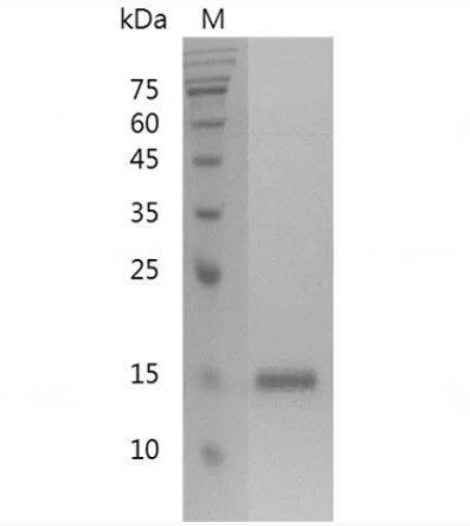
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Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 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 H2O 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

Gene Name	LGALS1 lectin, galactoside-binding, soluble, 1 [Homo sapiens (human)]
Official Symbol	LGALS1
Synonyms	LGALS1; lectin, galactoside-binding, soluble, 1; galectin-1; galectin 1; GBP; HBL; HPL; gal-1; HLBP14; galaptin; 14 kDa lectin; S-Lac lectin 1; lactose-binding lectin 1; 14 kDa laminin-binding protein; putative MAPK-activating protein PM12; beta-galactoside-binding lectin L-14-I; beta-galactoside-binding protein 14kDa; GAL1; DKFZp686E23103;
Gene ID	3956

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mRNA Refseq	NM_002305
Protein Refseq	NP_002296
MIM	150570
UniProt ID	P09382
SDS-PAGE analysis of recombinant human Galectin-1.	

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