

Active Recombinant Human LGALS3 Protein, His tagged

Cat. No. LGALS3-6914H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Galectin-3 protein (1-250 aa) with His tag was expressed in E. coli and purified by using conventional chromatography techniques.
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.
Form	Liquid
Bio-activity	The ED50 for this effect is less or equal to 15 µg/mL. Measured by its ability to agglutinate human red blood cells.

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Molecular Mass	28.3 kDa
AA Sequence	MADNFSLHDALSGSGNPNPQGWPAGWGNQPAGAGGYPGASYPGAYPGQAPPGA YPGQAPPGAYPGAPGAYPGAPAGVYPGPPSGPGAYPSSGQPSATGAYPATGPY GAPAGPLIVPYNLPLPGGVVPRMLITILGTVKPNANRIALDFQRGNDVAFHFNPRFNE NNRRVIVCNTKLDNNWGREERQSVFPFESGKPFKIQLVEPDHFKVAVNDAHLLQY NHRVKKLNEISKLGISGDIDLTSASYTMI
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Note	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Storage Buffer	20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.1M NaCl
Concentration	0.5 mg/mL (determined by Bradford assay)
Reference	1. Barondes SH., et al. (1994) J Biol Chem. 269(33):20807-10. 2. Kadrofske MM., et al. (1998) Arch Biochem Biophys. 349(1):7-20.

GENE INFORMATION

Gene Name	LGALS3 lectin, galactoside-binding, soluble, 3 [Homo sapiens (human)]
Official Symbol	LGALS3

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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_002306
Protein Refseq	NP_002297
MIM	153619
UniProt ID	P17931

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