

Galectin-3 Active Protein | LGALS3 active protein

Human Galectin-3

CATALOG # AAA79140	HOST E Coli	REACTIVITY Human
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PRODUCT SYNONYMS

Galectin-3; Human Galectin-3; Recombinant Human Galectin-3; LGALS3 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 98% by SDS-PAGE and HPLC analysis
Form/Format	Lyophilized from 0.5x PBS, pH 7.2
Sequence	ADNFSLHDAL SGSGNPNPQG WPGAWGNQPA GAGGYPGASY PGAYPGQAPP GAYPGQAPPG AYHGAPGAYP GAPAPGVYPG PPSGPGAYPS SGQPSAPGAY PATGPYGA GA GPLIVPYNLP LPGGVVPRML ITILGTVKPN ANRIALDFQR GNDVAFHFNP RFNENNRRI VCNTKLDNNW GREERQSVFP FESGKPFKI Q VLVEPDHFKV AVNDAHLLQY NHRVKKLNEI SKLGISGDID LTSASYTMI
Sequence Length	250
Endotoxin Level	< 0.1 ng per ug of Galectin-3
Biological Activity	Determined by its ability to chemoattract human blood monocytes. Chemotactic activity was observed at a concentration of 2.5 ug/ml with a peak response obtained at 250 ug/ml.
Reconstitution	The human Galectin-3 should be reconstituted in water to a concentration of 0.1-1.0 mg/ml. Do not vortex! This solution can be diluted in water or other buffer solutions or stored at -20 degree C.
Preparation and Storage	The lyophilized protein is stable for a 1 month at room temperature or 6 months at 4 degree C. The reconstituted protein is stable for 1 week at 2 degree C to 8 degree C and 3 months at -20 degreeC to 8 degree c and 3 months at -20 degree C to -80 degree C. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (e.g. 0.1% BSA) and store in working aliquots at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for LGALS3 active protein	Lectins, of either plant or animal origin, are carbohydrate binding proteins that interact with glycoprotein and glycolipids on the surface of animal cells. The Galectins are lectins that recognize and interact with beta-galactoside moieties. Galectin-3 regulates a number of biological processes, including embryogenesis, inflammatory responses, cell progression and metastasis. Galectin-3 is normally expressed in epithelia of a variety of tissues, including colon and endometrium, and in various inflammatory cells, including macrophages. Galectin-3 can function intracellularly, in controlling cell cycle and preventing T-cell apoptosis, and also extracellularly, in activating various cells, including monocytes/macrophages, mast cells, neutrophils, and lymphocytes. Expression of Galectin-3 is affected by neoplastic transformation, being up-regulated in certain types of lymphomas, and in thyroid and hepatic carcinomas. Conversely, it is down-regulated in other cancers, such as colon, breast, ovarian, and uterine. Recombinant human Galectin-3 is a globular 26.0 kDa protein containing 250 amino acid residues, but no disulfide bonds.
Product Categories/Family for LGALS3 active protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	115430223
NCBI GeneID	3958
NCBI Accession #	NP_002297.2
NCBI GenBank Nucleotide #	NM_002306.3
UniProt Accession #	P17931; Q16005; Q6IBA7; Q96J47; B2RC38
Molecular Weight	26.0 kDa
NCBI Official Full Name	galectin-3 isoform 1
NCBI Official Synonym Full Names	lectin, galactoside-binding, soluble, 3
NCBI Official Symbol	LGALS3
NCBI Official Synonym Symbols	L31; GAL3; MAC2; CBP35; GALBP; GALIG; LGALS2
NCBI Protein Information	galectin-3; lectin L-29; 35 kDa lectin; MAC-2 antigen; IgE-binding protein; laminin-binding protein; galactose-specific lectin 3; carbohydrate-binding protein 35
UniProt Protein Name	Galectin-3
UniProt Gene Name	LGALS3
UniProt Synonym Gene Names	MAC2; Gal-3; CBP 35; GALBP
UniProt Entry Name	LEG3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-human-active-protein/galectin-3/79140>