

Galectin-1 Active Protein | LGALS1 active protein

Human Galectin-1

CATALOG # AAA79150	HOST E Coli	REACTIVITY Human
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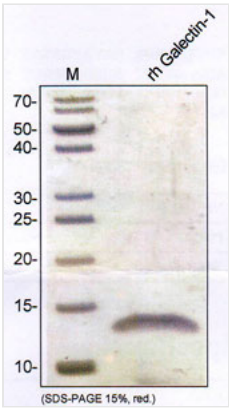
PRODUCT SYNONYMS

Galectin-1; Human Galectin-1; Recombinant Human Galectin-1; LGALS1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	>98% by SDS-PAGE & Coomassie stain
Form/Format	lyophilized
Sequence	ACGLVASNLN LKPGECRLVR GEVAPDAKSF VLNLGKDSNN LCLHFNPRFN AHGDANTIVC NSKDGGAWGT EQREAVFPFQ PGSVAEVCIT FDQANLTVKL PDGYEFKFPN RLNLEAINYM AADGDFKIKC VAFD Resultby N-terminal sequencing :ACGLVASNL NLKPGE
Sequence Length	134
Endotoxin Level	< 0.1 ng per ug of Galectin-1
Biological Activity	Determine by its ability to chemoattract human blood monocytes. Chemotactic activity was observed at a concentration of 2.5 ug/ml with a peak response obatined at 250 ug/ml.
Reconstitution	Human Galectin-I should be reconstituted in water to a concentration of 0.1 mg/ml. This solution can be diluted in water or other buffer solutions or stored at -20 degree C.
Buffer	PBS
Stabilizer	None
Preparation and Storage	The lyophilized human Galectin-I, though stable at room temperature, is best stored desiccated below 0 degree C. Reconstituted human Galectin-I should be stored in working aliquots at -20 degree C . Avoid repeated freeze and thaw cycles!

IMAGES



SDS-PAGE
SDS-PAGE analysis of recombinant human Galectin-1. Sample was loaded in 15% SDS-polyacrylamide gel under reducing condition and stained with Coomassie blue.

ADDITIONAL INFORMATION

Related Product Information for LGALS1 active protein	Lectins, of either plant or animal ongm, are carbohydrate binding proteins that interact with glycoprotein and glycolipids on the surface of animal cells. Galectin-I (Gal-I) is one of 15 evolutionarily conserved 13-galactoside-binding proteins that display biologicallydiverse activities in pathogenesis of inflammation and cancer. Gal-I is variably expressed on immune cells and endothelial cells, though is commonly found and secreted at high levels in cancer cells. There is also compelling evidence in models of cancer and autoimmunity that recombinant Gal-I (rGal-I) can potentiate immunoregulatory function of T cells. Galectin-I is an animal lectin that has been shown to interact with CD3, CD4, and CD45. It induces apoptosis of activated T-cells and T-leukemia cell lines through homodimeric binding of Nacetyllactosamines on membrane glycoproteins (Gal-I ligands) and inhibits the protein phosphatase activity of CD45. Recombinant human Galectin-I is a 14.5 kDa protein containing 134 amino acid residues.
Product Categories/Family for LGALS1 active protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504981
NCBI GeneID	3956
NCBI Accession #	NP_002296.1
NCBI GenBank Nucleotide #	NM_002305.3
UniProt Accession #	P09382; Q9UDK5; B2R5E8
Molecular Weight	~14 kDa
NCBI Official Full Name	galectin-1
NCBI Official Synonym Full Names	lectin, galactoside-binding, soluble, 1
NCBI Official Symbol	LGALS1
NCBI Official Synonym Symbols	GBP; GAL1
NCBI Protein Information	galectin-1; HBL; HPL; gal-1; HLBP14; galaptin; galectin 1; 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
UniProt Protein Name	Galectin-1
UniProt Gene Name	LGALS1
UniProt Synonym Gene Names	Gal-1; HLBP14

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://www.aaabiotech.com/e-coli-human-active-protein/galectin-1/79150>