

Active Recombinant Human Lectin, Galactoside-Binding, Soluble, 1

Cat. No. LGALS1-6976H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the human LGALS1 (Met 1-Asp135) was expressed. The recombinant human LGALS1 comprises 134 amino acids and migrates as an approximately 15 kDa band in SDS-PAGE under reducing conditions as predicted.
Species	Human
Source	E.coli
ProteinLength	134 aa
Description	LGALS1, the first identified member of the β -galactoside-binding animal lectin family, and exists as a homodimer of a single carbohydrate-recognition domain. LGALS1 is expressed in a variety of cell types, including thymic epithelial cells, endothelial cells, dendritic cells, macrophages, fibroblasts, and bone marrow stromal cells. There is increased galectin-1 expression in many types of cancer, including colon, breast, ovary and prostate carcinomas. Several potential glycoprotein ligands for galectin-1 have been identified, including lysosome-associated membrane glycoproteins and fibronectin, laminin, as well as T-cell glycoproteins CD43 and CD45.
Predicted N Terminal	Ala 2
Form	Lyophilized from 0.2 μ m filtered solution of PBS, 0.1M β -lactosyl, pH7.4. Normally 5 %-8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.

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Bio-activity	Measured by its ability to agglutinate human red blood cells. The ED50 for this effect is typically 0.5-3 µg/ml.
Molecular Mass	15 kDa
Endotoxin	< 5 eu per 1 mg of the protein as determined by the lal
Purity	>97 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70 °C.
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

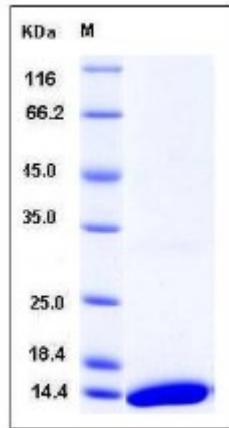
GENE INFORMATION

Gene Name	LGALS1 lectin, galactoside-binding, soluble, 1 [Homo sapiens]
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
mRNA Refseq	NM_002305
Protein Refseq	NP_002296

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MIM	150570
UniProt ID	P09382
Chromosome Location	22q13.1
Pathway	Validated targets of C-MYC transcriptional repression, organism-specific biosystem;
Function	galactoside binding; glycoprotein binding; lactose binding; laminin binding; protein homodimerization activity; signal transducer activity; sugar binding;
N/A	SDS-PAGE:  The SDS-PAGE gel image shows molecular weight markers on the left with values: 116, 66.2, 45.0, 35.0, 25.0, 18.4, and 14.4 kDa. A prominent protein band is visible in the sample lane at approximately 14.4 kDa.