



Recombinant Human Galectin-3

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-176
Size:	50 µg
Lot. No.:	According to product label

Sequence

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ADNFSLHDAL SSGSNPNPQG WPGAWGNQPA GAGGYPGASY  
PGAYPGQAPP GAYPGQAPPG AYHGAPGAYP GAPAPGVYYPG  
PPSGPGAYPS SGQPSAPGAY PATGPYGAPA GPLIVPYNLP  
LPGGVVPRML ITILGTVKPN ANRIALDFQR GNDVAFHFNP  
RFNENNRVI VCNTKLDNNW GREERQSVFP FESGKPFKIQ  
VLVEPDHFKV AVNDAHLQY NHRVKKLNEI SKLGISGDID  
LTSASYTMI
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Scientific Background

Gene-ID (NCBI):	3958
Synonyms:	LGALS3; L31; GAL3; MAC2; CBP35; GALBP; GALIG; LGALS2

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.

Database References

Protein RefSeq:	NP_002297.2
Uniprot ID:	P17931
mRNA RefSeq:	NM_002306

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	250
MW:	26.0 kDa

Biological Activity: Determined by its ability to chemoattract human blood monocytes. Chemotactic activity was observed at a concentration of 2.5 µg/ml with a peak response obtained at 250 µg/ml.



AVOID REPEATED FREEZE AND THAW CYCLES!