

Recombinant Human LGALS3 protein

Cat. No. LGALS3-4952H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LGALS3 protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	249
Description	Human Galectin-3 also named AGE-R3, CBP35, GAL3, L29, LGALS3, Mac-2, is belonging to the galectins family and it is encoded by a single gene, LGALS3, located on chromosome 14, locus q21–q22. It is expressed in the nucleus, cytoplasm, mitochondrion, cell surface, and extracellular space. Galectin-3 is approximately 30 kDa and, like all galectins, contains a carbohydrate-recognition-binding domain (CRD) of about 130 amino acids that enable the specific binding of β -galactosides. Given Galectin-3's broad biological functionality, it has been demonstrated to be involved in cancer, inflammation and fibrosis, heart disease, and stroke. Studies have also shown that the expression of galectin-3 is implicated in a variety of processes associated with heart failure, including myofibroblast proliferation, fibrogenesis, tissue repair, inflammation, and Ventricular remodeling. Human Galectin-3 shares 79% amino acid sequence identity with rat and mouse Galectin-3, respectively.
Form	Lyophilized from a 0.2 μ m filtered solution in 1 $\times$ PBS, pH 7.4, 3mM DTT.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by its ability to agglutinate human red blood cells is less than 10

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	µg/ml.
Molecular Mass	Approximately 26.0 kDa, a single non-glycosylated polypeptide chain containing 249 amino acids.
AA Sequence	ADNFSLHDALSGSGNPNPQGWPGAWGNQPAGAGGYPGASYPGAYPGQAPPGAY PGQAPPGAYPGAPGAYPGAPAPGVYPGPPSGPGAYPSSGQPSATGAYPATGPYG APAGPLIVPYNLPLPGGVPRMLITILGTVKPNANRIALDFQRGNDVAFHFNPRFNEN NRRVIVCNTKLDNNWGREERQSVFPFESGKPFKIQVLVEPDHFKVAVNDAHLLQYN HRVKKLNEISKLGISGDIDLTASAYTMI
Endotoxin	Less than 0.1 EU/g of rHuGalectin-3 as determined by LAL method.
Purity	>98% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	LGALS3
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_001177388
Protein Refseq	NP_001170859
MIM	153619
UniProt ID	P17931
SDS-PAGE of LGALS3-4952H	