

# Recombinant Human Galectin-3/LGALS3 Protein

Catalog Number:PKSH032474



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

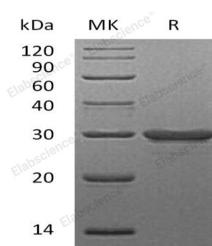
## Description

<b>Synonyms</b>	Galectin-3;Gal-3;35 kDa Lectin;Carbohydrate-Binding Protein 35;CBP35;Galactose-Specific Lectin 3;Galactoside-Binding Protein;GALBP;IgE-Binding Protein;L-31;Laminin-Binding Protein;Lectin L-29;Mac-2 Antigen;LGALS3;MAC2;P35;GAL3;GALBP;GALIG;L31;LGALS2;MAC2
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Ala2-Ile250
<b>Accession</b>	P17931
<b>Calculated Molecular Weight</b>	26.0 kDa
<b>Observed molecular weight</b>	30 kDa
<b>Tag</b>	None

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 50mM HEPES, 5% Sucrose, 5% Mannitol, 0.06%Tween80, pH7.5. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer i
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

The Galectin family of proteins consists of beta-galactoside binding lectins containing homologous carbohydrate recognition domains (CRDs). They also possess hemagglutination activity; which is attributable to their bivalent carbohydrate binding properties. Galectins are active both intracellularly and extracellularly. They have diverse effects on many cellular functions including adhesion; migration; polarity; chemotaxis; proliferation; apoptosis; and differentiation.

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Galectins may therefore play a key role in many pathological states; including autoimmune diseases; allergic reactions; inflammation; tumor cell metastasis; atherosclerosis; and diabetic complications. The galectins have been classified into the prototype galectins (1; 2; 5; 7; 10; 11; 13; 14); which contain one CRD and exist either as a monomer or a noncovalent homodimer. The chimera galectins (Galectin3) containing one CRD linked to a nonlectin domain; and the tandem repeat Galectins (4; 6; 8; 9; 12) consisting of two CRDs joined by a linker peptide. Galectins lack a classical signal peptide and can be localized to the cytosolic compartments where they have intracellular functions. However; via one or more as yet unidentified nonclassical secretory pathways; galectins can also be secreted to function extracellularly. Individual members of the galectin family have different tissue distribution profiles and exhibit subtle differences in their carbohydrate-binding specificities. Each family member may preferentially bind to a unique subset of cell surface glycoproteins.

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