

Recombinant Human Galectin-3

Catalog No: C068

Description Recombinant Human Galectin-3 is produced by our E.coli expression system and the target gene

encoding Ala2-Ile250 is expressed.

Source E. coli

Alternative name Galectin-3; Gal-3; 35 kDa Lectin; Carbohydrate-Binding Protein 35; CBP 35; Galactose-Specific

Lectin 3; Galactoside-Binding Protein; GALBP; IgE-Binding Protein; L-31; Laminin-Binding Protein;

Lectin L-29; Mac-2 Antigen; LGALS3; MAC2

Accession No. P17931

Formulation Lyophilized from a 0.2 µm filtered solution of 50mM HEPES, 150mM Nacl, 5% Trehalose, pH 7.4.

Quality Control Purity: Greater than 95% as determined by reducing SDS-PAGE.

Endotoxin: Less than 0.1 ng/μg (1 IEU/μg).

Reconstitution Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100μg/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Shipping The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

Storage Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Amino Acid Sequence carbohydrate recognition domains (CRDs). They also possess hemagglutination activity, which is

PFKIQVLVEPDHFKVAVNDAHLLQYNHRVKKLNEISKLGISGDIDLTSASYT MI

Background The Galectin family of proteins consists of beta-galactoside binding lectins containing homologous

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. 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

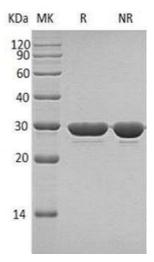
unidentified nonclassical secretory pathways, galectins can also be secreted to function extracellularly. Individual members of the galectin family have different tissue distribution profiles and exhibit subtle differences in their carbohydrate-binding specificities. Each family member may

preferentially bind to a unique subset of cell surface glycoproteins.





SDS-PAGE



MK: Marker

R: Sample in reducing conditions

NR: Sample in non-reducing conditions

