Data Sheet (Cat.No.TMPK-00837)

TargetMol

Galectin-3/LGALS3 Protein, Human, Recombinant (His)

General Information

Synonyms:	LGALS2;GAL3;MAC2GAL3;Galectin3;L31;Mac-2;GALBPCBP35;GALIG;CBP35;Lectin L-29;L29; galactin-3;LGALS3;Gal-3;AGE-R3
Protein Construction:	Ala2-Ile250
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P17931
Molecular Weight:	27.1 kDa (predicted). Due to glycosylation, the protein migrates to 35-45 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human Galectin 3, His Tag at 0.5μg/ml (100μl/Well) on the plate. Dose response curve for Anti-Galectin 3 Antibody, hFc Tag with the EC50 of 15.0ng/ml determined by ELISA (QC Test).
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 50 mM HEPES, 150 mM NaCl, 5 mM EDTA, 2 mM TCEP (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Human Galectin-3, also known as Mac-2, L29, CBP35, and epsilon BP, is classified as a chimeric member of the Galectin superfamily and contains one carbohydrate recognition domain (CRD) linked to a nonlectin domain.

Galactose-specific lectin which binds IgE. May mediate with the alpha-3, beta-1 integrin the stimulation by CSPG4 of endothelial cells migration. Together with DMBT1, required for terminal differentiation of columnar epithelial cells during early embryogenesis (By similarity).

Reference

Dong R, et al. Galectin-3 as a novel biomarker for disease diagnosis and a target for therapy (Review)[J]. International Journal of Molecular Medicine, 2017.

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