Data Sheet (Cat.No.TMPK-00831)

TargetMol

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

General Information

Synonyms:	Galectin3;LGALS2;AGE-R3;L31;LGALS3;Mac-2;GAL3;L29;Gal-3;GALIG;MAC2GAL3;Lectin L-29;GALBPCBP35;CBP35;galactin-3
Protein Construction:	Ala2-Ile264
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P16110
Molecular Weight:	28.5 kDa (predicted). Due to glycosylation, the protein migrates to 43-50 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Mouse Galectin-3, His Tag immobilized on CM5 Chip can bind Mouse LGALS3BP, His Tag with an affinity constant of 17.56 nM as determined in SPR assay.
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 PBS, 300 mM L-arginine (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

Galectin-3 (Gal-3) is a 30 kDa β-galactose, highly conserved and widely distributed intracellularly and extracellularly. Gal-3 has been demonstrated in recent years to be a novel inflammatory factor participating in the process of intravascular inflammation, lipid endocytosis, macrophage activation, cellular proliferation, monocyte

chemotaxis, and cell adhesion.

Reference

Gao L, et al. Role of APLP2 in the prognosis and clinicopathology of renal cell carcinoma. Oncol Lett. 2019 Jan;17 (1):508-513. doi: 10.3892/ol.2018.9577. Epub 2018 Oct 15. PMID: 30655794; PMCID: PMC6313182.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481