Data Sheet (Cat.No.TMPK-01273)

TargetMol

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

General Information

Synonyms:	LGALS2;L29;AGE-R3;GALIG;Lectin L-29;MAC2GAL3;Mac-2;L31;CBP35;Gal-3;GALBPCBP35; LGALS3;Galectin3;galactin-3;GAL3
Protein Construction:	Ala2-Ile248
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	A0A2K5U233
Molecular Weight:	27.05 kDa (predicted). Due to glycosylation, the protein migrates to 38-48 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Cynomolgus Galectin 3, His Tag at 2μg/ml (100μl/Well) on the plate. Dose response curve for Anti-Galectin 3 Antibody, hFc Tag with the EC50 of 38.4ng/ml determined by ELISA.
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, 200 mM L-arginine, 2 mM Tcep (pH 6.5). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in 50mM Hepes, 150mM NaCl, 200mM L-arginine, 2mM Tcep (pH 6.5). 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, 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

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