

Recombinant Human Galectin-3/LGALS3 Protein

Catalog No.: RP00057 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3958	P17931

Tags

No tag

Synonyms

CBP35; GAL3; GALBP; GALIG; L31;
LGALS2;
MAC2; LGALS3; GAL3; GALBP; GALIG; L31;
LGALS2; MAC2

Product Information

Source	Purification
<i>E. coli</i>	> 97% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

This protein is a member of the galectin family of carbohydrate binding proteins. Members of this protein family have an affinity for beta-galactosides. The encoded protein is characterized by an N-terminal proline-rich tandem repeat domain and a single C-terminal carbohydrate recognition domain. This protein can self-associate through the N-terminal domain allowing it to bind to multivalent saccharide ligands. This protein localizes to the extracellular matrix, the cytoplasm and the nucleus. This protein plays a role in numerous cellular functions including apoptosis, innate immunity, cell adhesion and T-cell regulation. The protein exhibits antimicrobial activity against bacteria and fungi.

Basic Information

Description

Recombinant Human Galectin-3/LGALS3 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ala2-Ile250) of human Galectin-3 (Accession #NP_002297.2).

Bio-Activity

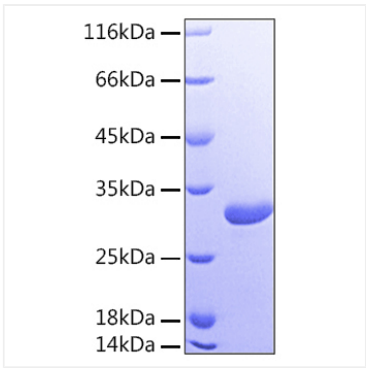
Measured by its binding ability in a functional ELISA. Immobilized Human Galectin-3 at 1 μg/mL (100 μL/well) can bind Galectin-3/LGALS3 Rabbit mAb with a linear range of 0.24-35 ng/mL.

Storage

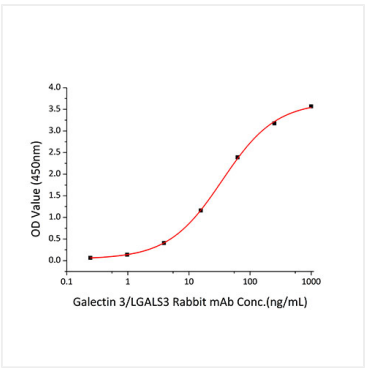
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

Validation Data



Recombinant Human Galectin-3/LGALS3 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 30 kDa.



Immobilized recombinant Human Galectin-3 at 1µg/mL (100 µL/well) can bind Galectin-3/LGALS3 Rabbit mAb with a linear range of 0.24-35ng/mL.