

Synonym

LGALS1,GAL1,GBP,Galectin-1,DKFZp686E23103

Source

Human Galectin-1, Tag Free(GA1-H4113) is expressed from E. coli cells. It contains AA Met 1 - Asp 135 (Accession # [P09382-1](#)).

Predicted N-terminus: Met 1

Molecular Characterization

Galectin-1(Met 1 - Asp 135)  
P09382-1

This protein carries no "tag".

The protein has a calculated MW of 14.71 kDa. The protein migrates as 13-15 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

The protein is designed as a dimer.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

Storage

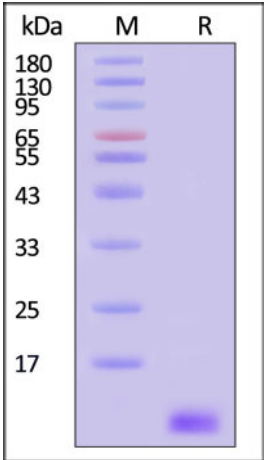
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

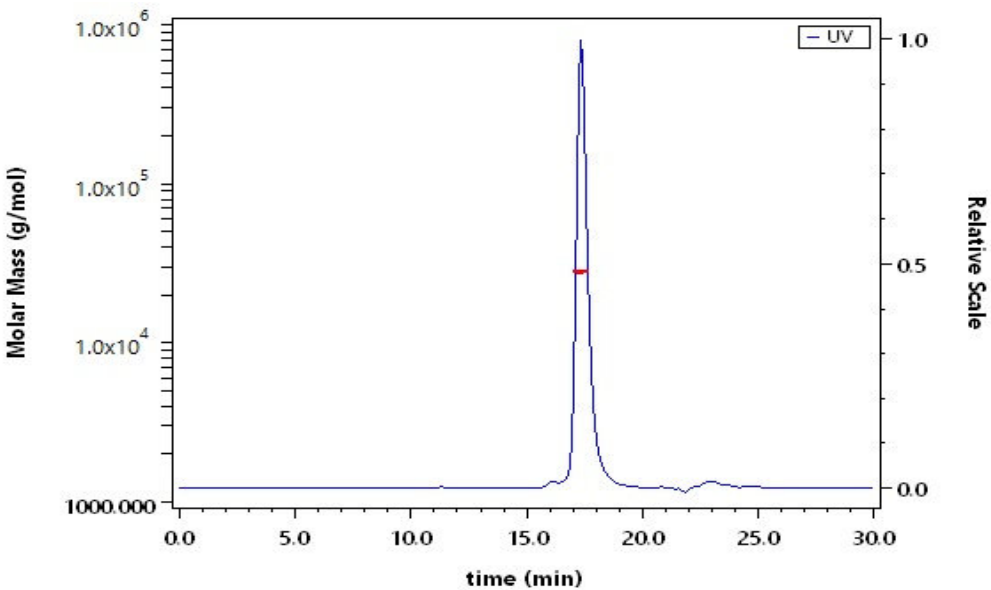
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human Galectin-1, Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS

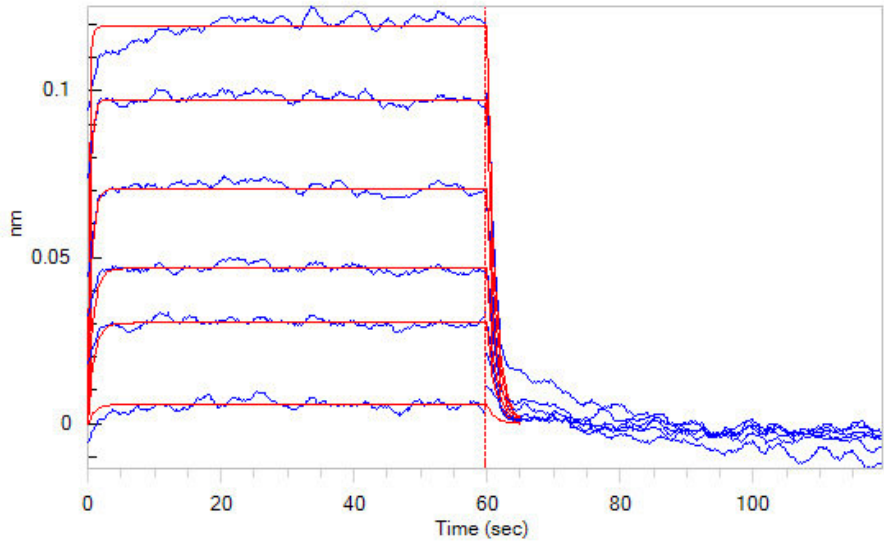


The purity of Human Galectin-1, Tag Free (Cat. No. GA1-H4113) is more than 95% and the molecular weight of this protein is around 25-35 kDa verified by SEC-MALS.

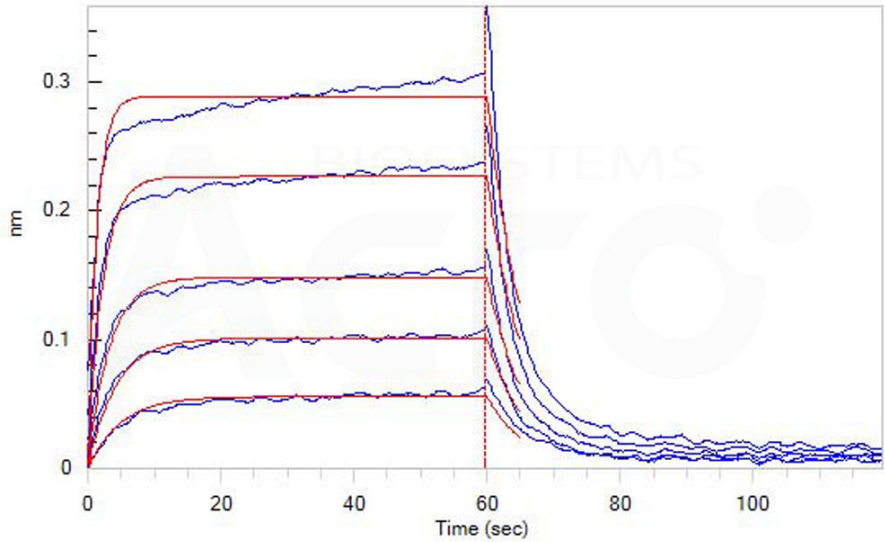
[Report](#)

Bioactivity-BLI





Loaded Human CD45, His Tag (Cat. No. CD5-H52H8) on HIS1K Biosensor, can bind Human Galectin-1, Tag Free (Cat. No. GA1-H4113) with an affinity constant of 3.0  $\mu$ M as determined in BLI assay (ForteBio Octet Red96e) (QC tested).



Loaded Biotinylated Human CD45, His,Avitag (Cat. No. CD5-H82E7) on SA Biosensor, can bind Human Galectin-1, Tag Free (Cat. No. GA1-H4113) with an affinity constant of 2.0  $\mu$ M as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

Background

Galectin-1 (Gal-1), a member of the  $\beta$ -galactoside-binding animal lectin family, has a wide range of biological activities, which makes it an attractive target for medical applications. Gal-1 is ubiquitously but differentially expressed in normal and pathological animal tissues, and a variety of biological activities, including modulation of innate and adaptive immune responses, malignant progression of tumor cells, etc.

