

**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  $\mu$ g by the LAL method / rFC method.**Purity**

&gt;95% as determined by SDS-PAGE.

&gt;95% as determined by SEC-MALS.

**Formulation**Lyophilized from 0.22  $\mu$ m 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.*

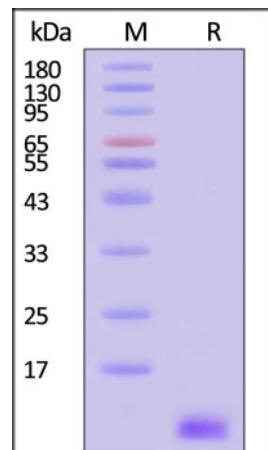
**Storage**

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

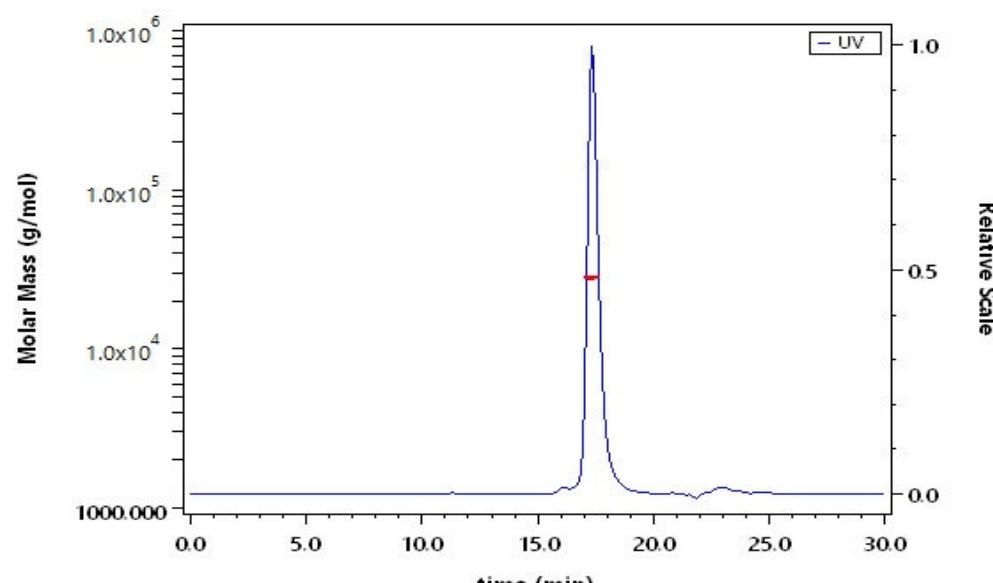
*Please avoid repeated freeze-thaw cycles.*

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](#)).

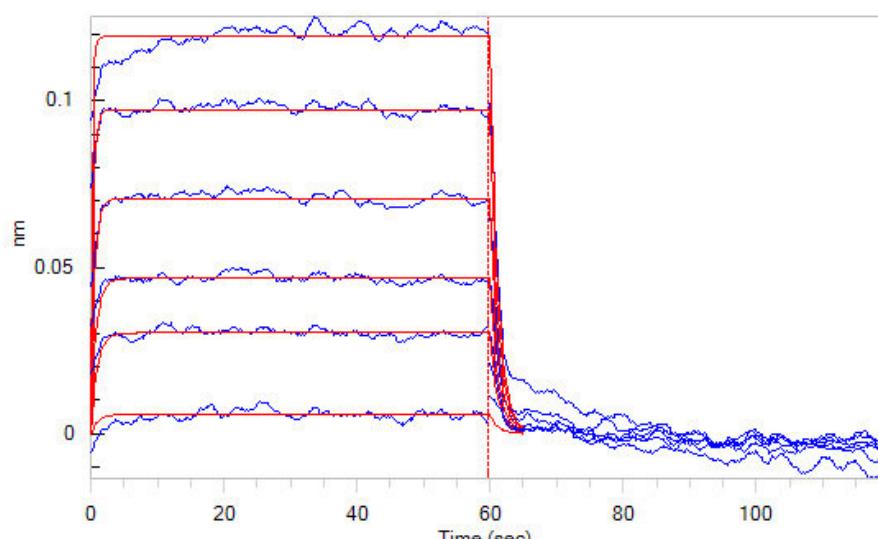
**SEC-MALS**

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.

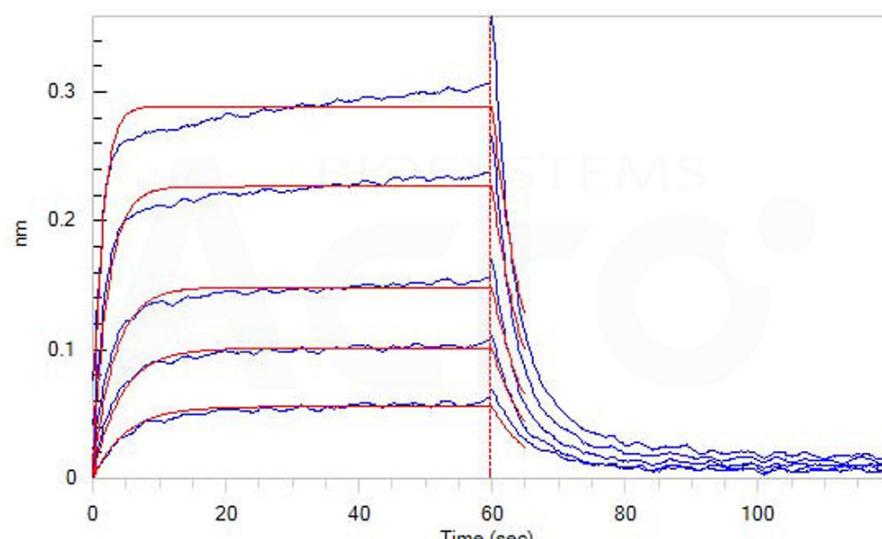
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Loaded Human CD45, His Tag (Cat. No. CD5-H52H8) on HIS1K Biosensor, can bind Human Galectin-1, Tag Free (Cat. No. GA1-H4113) with an affinity constant of 3.0  $\mu$ M as determined in BLI assay (ForteBio Octet Red96e) (QC tested).



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.

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