

Human Galectin-9 / LGALS9 Protein, Tag Free (MALS verified)

Catalog # LG9-H5213



BIOSYSTEMS
Acro

Synonyms

Galectin-9, LGALS9, Ecalectin

Source

Human Galectin-9 Protein, Tag Free (LG9-H5213) is expressed from human 293 cells (HEK293). It contains AA Ala 2 - Thr 323 (Accession # [O00182-2](#)).

Predicted N-terminus: Gly

Molecular Characterization

Galectin-9(Ala 2 - Thr 323)
O00182-2

This protein carries no "tag".

The protein has a calculated MW of 35.9 kDa. The protein migrates as 43-55 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

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

Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in 20 mM MOPS, 50 mM NaCl, pH7.3 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.

Shipping and Storage

This product is shipped at ambient temperature.

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

Please avoid repeated freeze-thaw cycles.

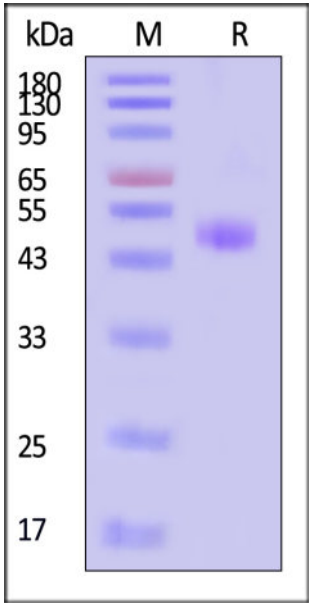
This product is stable after storage at:

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

ACRO Quality Management System

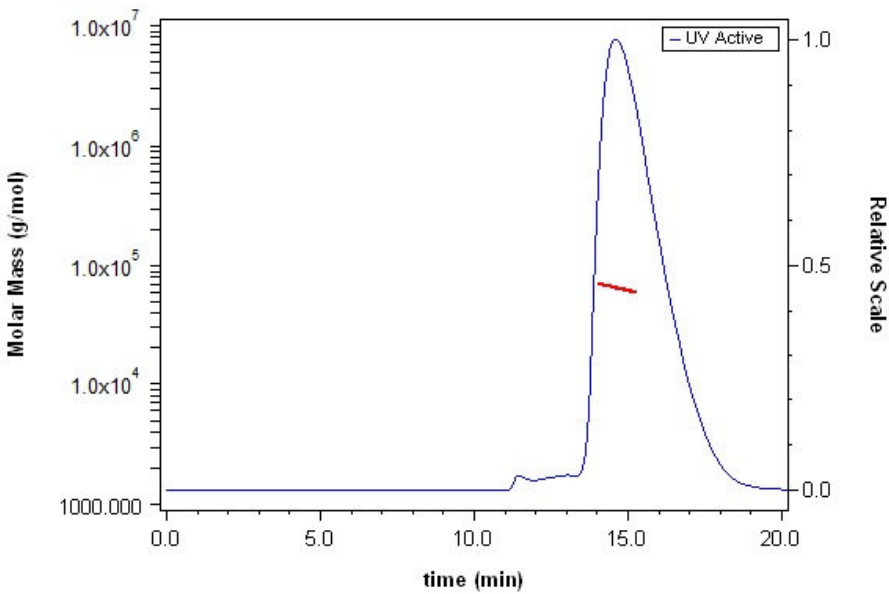
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



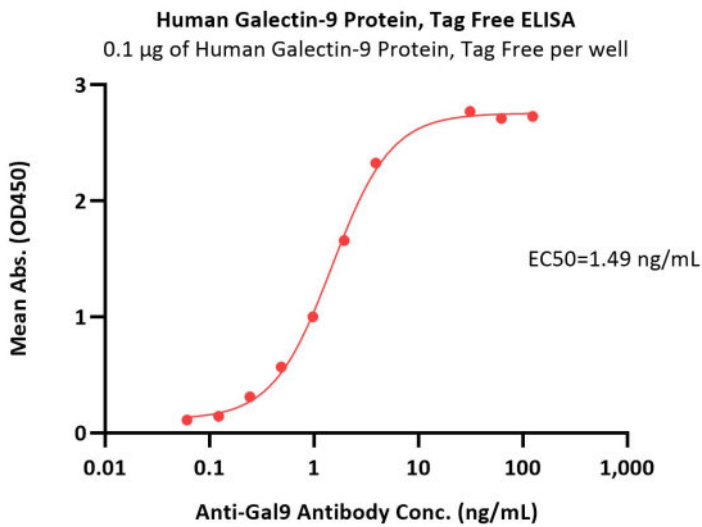
Human Galectin-9 Protein, Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Human Galectin-9 Protein, Tag Free (Cat. No. LG9-H5213) is more than 95% and the molecular weight of this protein is around 45-70 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human Galectin-9 Protein, Tag Free (Cat. No. LG9-H5213) at 1 µg/mL (100 µL/well) can bind Anti-Gal9 Antibody with a linear range of 0.06-4 ng/mL (QC tested).

Background

Galectin-9 (LGALS9) is also known as tumor antigen HOM-HD-21 and ecalectin. Galectins are a family of proteins defined by their binding specificity for β -galactoside sugars, such as N-acetylglucosamine (Gal β 1-3Glc or Gal β 1-4Glc), which can be bound to proteins by either N-linked or O-linked glycosylation. As for Galectin-9, it has high affinity for the Forssman pentasaccharide, and it is also the ligand for HAVCR2/TIM3. Furthermore, Galectin-9 stimulates bactericidal activity in infected macrophages by causing macrophage activation and IL1B secretion which restricts intracellular bacterial growth.

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