

**Synonym**

Galectin-9,LGALS9,Ecalectin

**Source**

Human Galectin-9, His Tag(LG9-H5244) is expressed from human 293 cells (HEK293). It contains AA Ala 2 - Thr 323 (Accession # [Q00182-2](#) ).

Predicted N-terminus: His

**Molecular Characterization**

Poly-his	Galectin-9(Ala 2 - Thr 323) Q00182-2
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This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 36.6 kDa. The protein migrates as 45-55 kDa under reducing (R) condition (SDS-PAGE).

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

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

**Formulation**

Lyophilized from 0.22 µm filtered solution in 20 mM MOPS, 50 mM NaCl, 1 mM EDTA, 2 mM DTT, 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.*

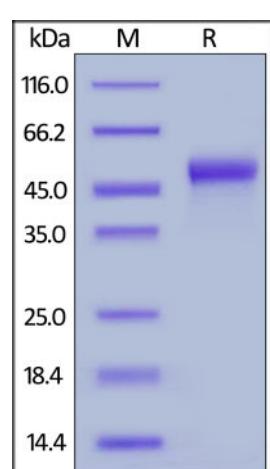
**Storage**

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-9, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

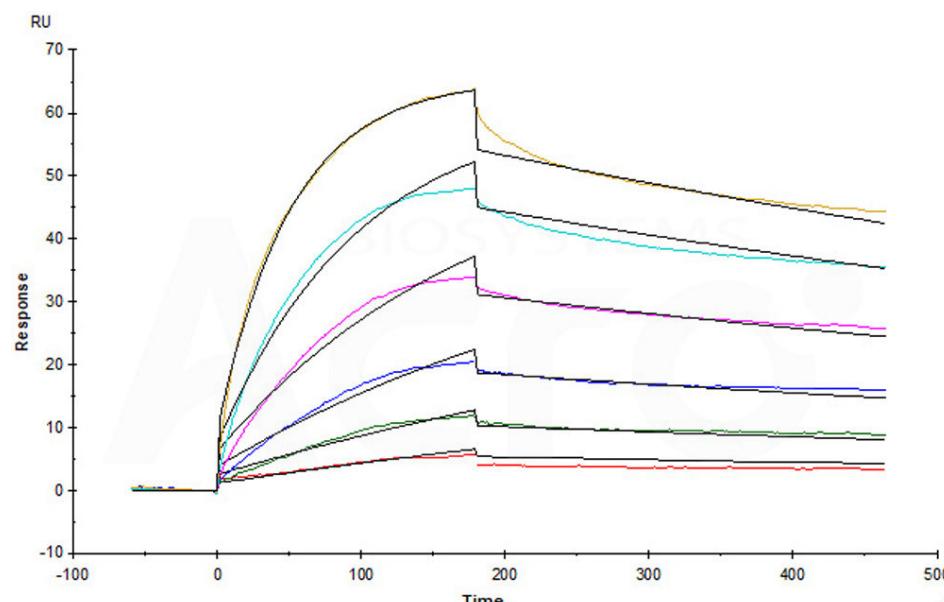
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# Human Galectin-9 / LGALS9 Protein, His Tag

Catalog # LG9-H5244



BIOSYSTEMS  
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Human TIM-3 (22-200) Protein, Fc Tag (Cat. No. TM3-H5258) captured on CM5 chip via Anti-human IgG Fc antibodies surface can bind Human Galectin-9, His Tag (Cat. No. LG9-H5244) with an affinity constant of 57 nM as determined in a SPR assay (Biacore T200) (Routinely 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  $\beta$ -galactoside sugars, such as N-acetyllactosamine (Gal $\beta$ 1-3GlcNAc or Gal $\beta$ 1-4GlcNAc), 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.

## Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.

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