

# Human Galectin 9/LGALS9 Protein

Cat. No. GLT-HM109

## Description

<b>Source</b>	Recombinant Human Galectin 9/LGALS9 Protein is expressed from HEK293 with His tag at the N-Terminus. It contains Ala2-Thr323.
<b>Accession</b>	O00182-2
<b>Molecular Weight</b>	The protein has a predicted MW of 36.9 kDa. Due to glycosylation, the protein migrates to 50-65 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in 20 mM MOPS, 50 mM NaCl, 1 mM EDTA, 2 mM DTT (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Galectin-9 is a secreted carbohydrate-binding protein with two lectin domains connected by a linker region. Galectins are a family of proteins defined by their binding specificity for  $\beta$ -galactoside sugars, such as N-acetylglucosamine, which can be bound to proteins by either N-linked or O-linked glycosylation.

## Assay Data

### Bis-Tris PAGE



Human Galectin 9 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.