

Datasheet for ABIN6700203  
**LGALS1/Galectin 1 Protein**



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2 Images

## Overview

Quantity:	10 µg
Target:	LGALS1/Galectin 1 (LGALS1)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

## Product Details

Purpose:	Human Galectin-1 Recombinant Protein
Purification:	Galectin-1 purity was determined to be greater than 95% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	95,00%
Endotoxin Level:	Measured by LAL is typically $\leq 1$ EU/µg protein.
Biological Activity Comment:	The activity is determined by the ability to induce chemotaxis of human blood monocytes or THP-1 with a typical range of 0.5 - 3.0 µg/mL.

## Target Details

Target:	LGALS1/Galectin 1 (LGALS1)
Alternative Name:	LGALS1 ( <a href="#">LGALS1 Products</a> )
Background:	Synonyms: 14 kDa lectin, Beta-galactoside-binding lectin L-14-I, Galaptin, HBL, HPL, Lactose-binding lectin 1, S-LAC lectin-I, L-14

## Target Details

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Background: Galectin-1 belongs to a large family of carbohydrate-binding proteins called lectins. Galectin-1 can be either monomeric or homodimeric and is found in a wide variety of cells and tissue types. Galectin-1 can control cell growth, proliferation, induce apoptosis of activated T cells while it can also modulate cytokine secretion or inhibit pro-inflammatory cytokine production. Galectin-1 plays an important role in acute and chronic inflammation. Recombinant human Galectin-1 is a non-glycosylated protein, containing 134 amino acids, with a molecular weight of 14.5 kDa.

UniProt: [P09382](#)

Pathways: [Carbohydrate Homeostasis](#)

## Application Details

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Application Notes: Other: User Optimized

Application\_Note: Galectin-1 Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Galectin-1 in immunological assays.

Comment: Suggested\_Applications: Cellular Assay

Other\_Performance\_Data:

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Reconstitution\_Buffer: Restore with deionized water (or equivalent)

Reconstitution\_Volume: 10 µL (10-100 µL)

Buffer: Buffer: 0.01 M Sodium Phosphate, pH 7.5

Stabilizer: None

Preservative: Without preservative

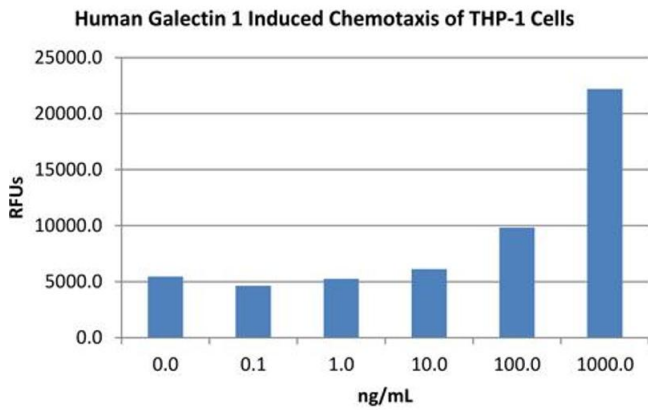
Storage: 4 °C, -20 °C

Storage Comment: Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing

at room temperature.

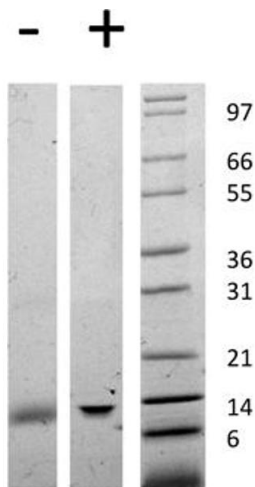
Expiry Date: 6 months

Images



**SDS-PAGE**

**Image 1.** SDS-PAGE of Human Galectin-1 Recombinant Protein Bioactivity of Human Galectin-1 Recombinant Protein. Human THP-1 cells were allowed to migrate to Human Galectin 1 at (0, 0.1, 1, 10, 100 and 1000 ng/mL). After 1 hour, cells that migrated were counted using a luminescent substrate and displayed on the bar graph above. Significant increases in migration over basal levels were seen in response to Human Galectin 1 starting at 100 ng/mL. This value is comparable to expected ranges of a chemotactic response at 2.5 ug/mL of primary human monocytes.



**SDS-PAGE**

**Image 2.** SDS-PAGE of Human Galectin-1 Recombinant Protein SDS-PAGE of Human Galectin-1 Recombinant Protein. Lane 1: 1 µg Human Galectin-1 in non-reducing conditions . Lane 2: 1 µg Human Galectin-1 in reducing conditions (+). Lane 3: Molecular weight marker. Human Galectin-1 has a predicted MW of 14.5 kDa.