

Datasheet for ABIN6700207  
**Galectin 3 Protein (LGALS3)**



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2 Images

## Overview

Quantity:	50 µg
Target:	Galectin 3 (LGALS3)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

## Product Details

Purpose:	Human Galectin-3 Recombinant Protein
Purification:	Galectin-3 purity was determined to be greater than 97% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	97,00%
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 PBMCs at concentrations ranging from 2-220 µg/mL.

## Target Details

Target:	Galectin 3 (LGALS3)
Alternative Name:	LGALS3 ( <a href="#">LGALS3 Products</a> )
Background:	Synonyms: 35 kDa lectin, Galactose-specific lectin-3, Galactoside-binding protein (GALBP), IgE-binding protein, Laminin-binding protein, MAC2, L-29 CPB-35

## Target Details

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Background: Galectin-3 belongs to a large family of carbohydrate-binding proteins called lectins. Galectin-3 is expressed by a wide range of cell types including activated T cells, tumor cells, macrophages, osteoclasts, fibroblasts and epithelial cells and interacts with  $\beta$ -galactoside sugar moieties. Galectin-3 is associated with cancer, heart failure, stroke and inflammation. Human and mouse Galectin-3 share an 80 % homology by amino acid sequence. Recombinant human Galectin-3 is a non-glycosylated protein, containing 250 amino acids, with a molecular weight of 26 kDa.

UniProt: [P17931](#)

Pathways: [RTK Signaling](#)

## Application Details

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Application Notes: Other: User Optimized

Application\_Note: Galectin-3 Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Galectin-3 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)

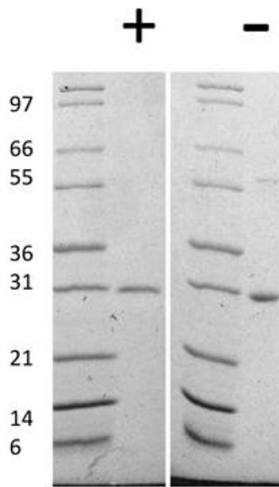
Reconstitution\_Volume: 50 $\mu$ L

Buffer: Lyophilized in 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5.

Preservative: Without preservative

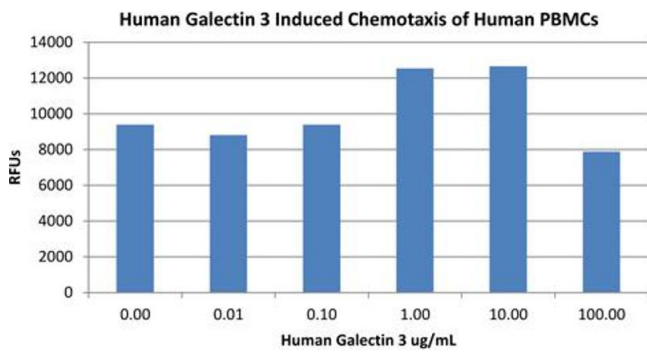
Storage: 4 °C, -20 °C

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.



**SDS-PAGE**

**Image 1.** SDS-PAGE of Human Galectin-3 Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 µg Human Galectin-3 in reducing conditions (+). Lane 3: Molecular weight marker. Lane 4: 1 µg Human Galectin-3 in non-reducing conditions. Human Galectin-3 has a predicted MW of 26 kDa.



**SDS-PAGE**

**Image 2.** SDS-PAGE of Human Galectin-3 Recombinant Protein Bioactivity of Human Galectin-3 Recombinant Protein. Human PBMCs were allowed to migrate to Human Galectin 3 at (0, 0.01, 0.1, 1, 10 and 100 µg/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 3 starting at 1 µg/mL. This value is comparable to expected ranges of a chemotactic response of primary human monocytes.