Datasheet for ABIN6700206

Galectin 3 Protein (LGALS3)

2 Images

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Overview

Quantity:	10 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 ≤ 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 (LGALS3 Products)
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

	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 β-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

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

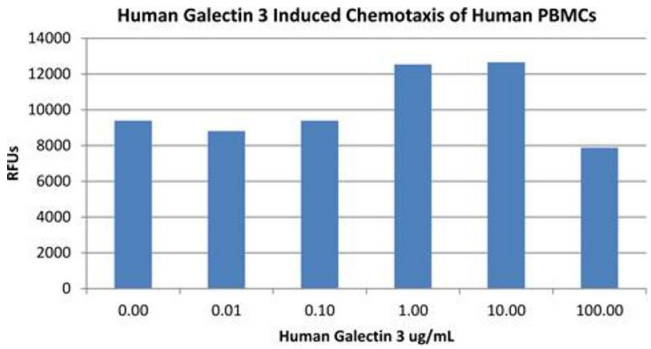
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 10 µL (10-100 µL)
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.

Handling

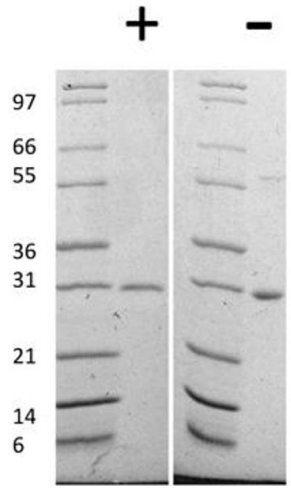
Expiry Date:	6 months

Images



SDS-PAGE

Image 1. 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 ug/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 ug/mL. This value is comparable to expected ranges of a chemotactic response of primary human monocytes.



SDS-PAGE

Image 2. SDS-PAGE of Human Galectin-3 Recombinant Protein 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.