Datasheet for ABIN6700204
LGALS1/Galectin 1 Protein

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Overview

Quantity:	50 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 ≤ 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 (LGALS1 Products)
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

	Background: Galectin-1 belongs to a large family of carbohydrate-binding proteins called lectins. Galectin-1can 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, containing134 amino acids, with a molecular weight of 14.5 kDa.
UniProt:	P09382
Pathways:	Carbohydrate Homeostasis

Application Details

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: 50μL
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

Handling

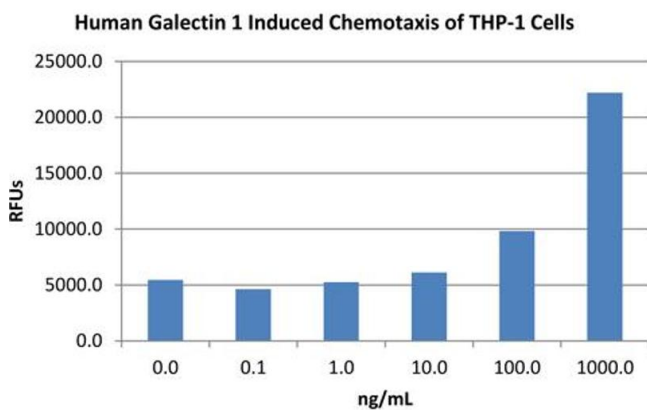|	
	at room temperature.
Expiry Date:	6 months

Images
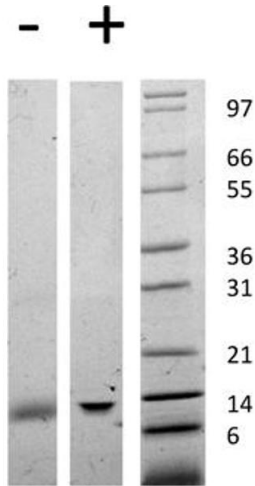
SDS-PAGE

Image 1. 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.

SDS-PAGE

Image 2. 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.