

Recombinant Human LGALS12 Protein (Ser2-Ser336), N-His tagged, Animal-free, Carrier-free

Cat. No. LGALS12-301H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LGALS12 Protein (Ser2-Ser336) with N-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Ser2-Ser336
Description	Galectin-12 (Gal-12) is a lectin family member and is one of the tandem repeat-type galectins containing two carbohydrate recognition domains (CRD) connected by a linker region in a single peptide chain. The CRD is responsible for β -galactoside binding and is required to interact with the VPS13C protein. It has been reported that galectin-12 is presented in the adipose tissue but also expressed in macrophages and other leukocytes. Galectin-12 participates in many biological activities including cell cycle regulation, apoptosis, and cell differentiation. Moreover, galectin-12 has emerged as a crucial factor in driving the macrophage to M1 polarization, leading to inflammation and reducing insulin sensitivity in adipocytes.
Form	Lyophilized
Molecular Mass	The protein has a calculated MW of 38.4 kDa. The protein migrates as 38 kDa under reducing condition (SDS-PAGE analysis).

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Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	LGALS12 lectin, galactoside-binding, soluble, 12 [Homo sapiens (human)]
Official Symbol	LGALS12
Synonyms	LGALS12; lectin, galactoside-binding, soluble, 12; galectin-12; galectin 12; GRIP1; galectin-related inhibitor of proliferation; GAL12;
Gene ID	85329
mRNA Refseq	NM_001142535

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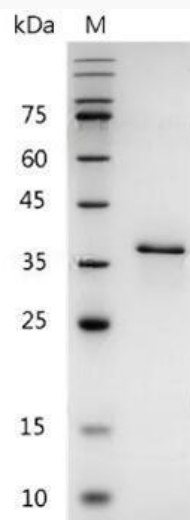
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Protein Refseq NP_001136007

MIM 606096

UniProt ID Q96DT0

**SDS-PAGE analysis
of recombinant
human Galectin-12.**



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