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**Product Data Sheet**


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Product Name: LGALS4 Human  
 Cat. No.: GP20284  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Galectin-4; Gal-4; Lactose-binding lectin 4; L-36 lactose-binding protein; L36LBP; Antigen NY-CO-27; LGALS4; lectin galactoside-binding soluble 4; GAL4.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAYVPAPGYQ PTYNPTLPYY QPIPGLNVG MSVYIQGVAS EHMKRFFVNF VVGQDPGSDV AFHFNPRFDG WDKVVFNTLQ GGKWGSEERK RSMPFKKGAA FELVFIVLAE HYKVVVNGNP FYEYGHRLPL QMVTHLQVDG DLQLQSINFI GGQPLRPQGP PMMPYPGPG HCHQQLNSLP TMEGPPTFNP PVPYFGRLQG GLTARRTIII KGYVPPTGKS FAINFKVGSS GDIALHINPR MGNGTVVRNS LLNGSWGSEE KKITHNPFPG GQFFDLSIRC GLDRFKVYAN GQHLEDFFAHR LSAFQRVDTL EIQGDVTL SY VQI.		
Formulation	The LGALS4 protein solution contains 20mM Tris-HCl, pH-8, 1mM DTT and 10% glycerol.		

**Introduction**

Galectin-4 is a member of the subfamily of galectins composed of two carbohydrate recognition domains having similar peptide chains. The galectins are a family of beta-galactoside-binding proteins having a role in modulating cell-cell and cell-matrix interactions, which inhibits chronic inflammations, GVHD, and allergic responses. LGALS4 expression is limited to small intestine, colon, and rectum, and it is underexpressed in colorectal cancer. LGALS4 binds as an endogenous ligand to glycosphingolipids having 3-O-sulfated Gal residues and bind as well to cholesterol-3-sulfate. LGALS4 takes part in cell adhesion. LGALS4 plays a role in crosslinking the lateral cell membranes of the surface-lining epithelial cells, thus supporting epithelial integrity against mechanical stress exerted by the bowel lumen. LGALS4 is in charge of intestinal inflammation via selective regulation of peripheral and mucosal T-cell cell

**Caution: Product has not been fully validated for medical applications. For research use only.**

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cycle, in addition to cell death by apoptosis of T-cells by a pathway independent of the activation of caspases. LGALS4 blockade decreases TNF-alpha inhibitor induced T-cell death. LGALS4 decreases pro-inflammatory cytokine secretion including IL-6 & IL-17.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

Galectin-4 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 343 amino acids (1-323 a.a.) and having a molecular mass of 38.1kDa. Galectin-4 is fused to 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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