9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

LGALS4 Human

Galectin-4 Human Recombinant
GRF0238

Product Overview

Name	LGALS4 Human
Description	
Galectin-4 Human Recombinant	
Accession (Primary)	P56470
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.	
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 lume. LGALS4 is in charge of intestinal inflammation via selective regulation of peripheral and mucosal T-cell cell 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
The LGALS4 protein solution contains 20mM Tris-HCl, pH-8, 1mM DTT and 10% glycerol.	
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.	

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Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MAYVPAPGYQ PTYNPTLPYY QPIPGGLNVG MSVYIQGVAS EHMKRFFVNF VVGQDPGSDV AFHFNPRFDG WDKVVFNTLQ GGKWGSEERK RSMPFKKGAA FELVFIVLAE HYKVVVNGNP FYEYGHRLPL QMVTHLQVDG DLQLQSINFI GGQPLRPQGP PMMPPYPGPG HCHQQLNSLP TMEGPPTFNP PVPYFGRLQG GLTARRTIII KGYVPPTGKS FAINFKVGSS GDIALHINPR MGNGTVVRNS LLNGSWGSEE KKITHNPFGP GQFFDLSIRC GLDRFKVYAN GQHLFDFAHR LSAFQRVDTL EIQGDVTLSY VQI.

Precautions

LGALS4 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P56470)