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

LGALS4 Mouse

Galectin-4 Mouse Recombinant
GRF0239

Product Overview

Name	LGALS4 Mouse

Description

Galectin-4 Mouse Recombinant

Accession (Primary)	Q8K419

Synonyms

gal-4 , Galectin-4, Lactose-binding lectin 4, lectin galactoside-binding soluble 4.

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

LGALS4 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 10% glycerol and 1mM DTT.

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 90.0% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGS MAYVPAP GYQPTYNPTL PYKRPIPGGL SVGMSVYIQG MAKENMRRFH VNFAVGQDDG ADVAFHFNPR FDGWDKVVFN TMQSGQWGKE EKKKSMPFQK GKHFELVFMV MPEHYKVVVN GNSFYEYGHR LPVQMVTHLQ VDGDLELQSI NFLGGQPAAA PYPGAMTIPA YPAGSPGYNP PQMNTLPVMT GPPVFNPRVP YVGALQGGLT VRRTIIIKGY VLPTARNFVI NFKVGSSGDI ALHLNPRIGD SVVRNSFMNG SWGAEERKVA YNPFGPGQFF DLSIRCGMDR FKVFANGQHL FDFSHRFQAF QMVDTLEING DITLSYVQI.

Biological Activity