
Product Data Sheet

Product Name: LGALS4 Mouse
 Cat. No.: GP20285
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	gal-4 ; Galectin-4; Lactose-binding lectin 4; lectin galactoside-binding soluble 4.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAYVPAP GYQPTYNPTL PYKRPIPGGL SVGMSVYIQG MAKENMRRFH VNFAVGQDDG ADVAFHFNPR FDGWDKVVFN TMQSGQWGKE EKKKSMPFQK GKHFELVFMV MPEHYKVVVN GNSFYEYGHR LPVQMVTHLQ VDGDLQLSI NFLGGQAAA PYPGAMTIPA YPAGSPGYNP PQMNTLPVMT GPPVFNRPVP YVGALQGGLT VVRTIIKGY VLPTARNFVI NFKVGSSGDI ALHLNPRIGD SVVRNSFMNG SWGAEERKVA YNPFPGQFF DLSIRCGMDR FKVFANGQHL FDFSHRFQAF QMVDLTLEING DITLSYVQI.		
Formulation	LGALS4 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 10% glycerol and 1mM DTT.		

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 cycle, in addition to cell death by apoptosis of T-cells by a pathway independent of the

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

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activation of caspases. LGALS4 blockade decreases TNF-alpha inhibitor induced T-cell death. LGALS4 decreases pro-inflammatory cytokine secretion including IL-6 & IL-17.

Biological Activity

The ED50 was measured by its ability to agglutinate human red blood cells and was found to be <5 ug/ml.

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

LGALS4 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 349 amino acids (1-326a.a) and having a molecular mass of 38.8kDa. LGALS4 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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