

32-1225: LGALS4 Recombinant Protein

Alternative Name : 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.

Description

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

Product Info

Amount : 25 µg
Purification : Greater than 95.0% as determined by SDS-PAGE.
Content : The LGALS4 protein solution contains 20mM Tris-HCl, pH-8, 1mM DTT and 10% glycerol.
Storage condition : 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.
Amino Acid : MGSSHHHHHH SSGLVPRGSH MAYVPAPGYQ PTYNPTLPYY QPIPGLNVG MSVYIQGVAS
 EHMKRFFVNF VVGQDPGSDV AFHFNPRFDG WDKVVFNTLQ GGKKGSEERK RSMPPFKKGA
 FELVFIVLAE HYKVVVNGNP FYEYGHRLPL QMVTHLQVDG DLQLQSINFI GGQPLRPQGP PMMPYPGPG
 HCHQQLNSLP TMEGPPTFNP PVPYFGRLQG GLTARRTIII KGYVPPTGKS FAINFKVGSS GDIALHINPR
 MNGTIVVRNS LLNGSWGSEE KKITHNPFPG GQFFDLSIRC GLDRFKVYAN GQHLFDFAHR LSAFQRVDTL
 EIQGDVTLSTY VQI.

