



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



Galectin-4, His Tag, human recombinant (rHuGAL4-His)

Catalog No: 97300
Lot No: XXXXX
Source: *E. coli*
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

Background

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.

Description

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

Physical Appearance

Sterile filtered colorless solution.

Formulation

The LGALS4 protein solution contains 20 mM Tris-HCl, pH 8, 1 mM 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.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino Acid Sequence

MGSSHHHHHH SSSLVPRGSH MAYVPAPGYQ PTYNPTLPYY QPIPGGLNVG MSVYIQGVAS EHMKRFFVNF VVGQDPGSDV
AFHFNPRFDG WDKVVFNTLQ GGKKGSEERK RSMFPPKGA A FELVFIVLAE HYKVVVNGNP FYEYGHRLPL QMVTHLQVDG
DLQLQSINFI GGQPLRPQGP PMPPYPGPG HCHQQLNSLP TMEGPPTFNP PVPYFGRLQG GLTARRTIII KGYVPPTGKS
FAINFKVGSS GDIALHINPR MNGTIVVRNS LLNGSWGSEE KKITHNPFPG GQFFDLSIRC GLDRFKVYAN GQHLDFFAHR
LSAFQRVDTL EIQGDVTL SY VQI



Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.