

Recombinant human Galectin-4/LGALS4 protein

Catalog Number: ATGP0409

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-323aa

UniProt No.

P56470

NCBI Accession No.

NP_006140

Alternative Names

Gal-4, Antigen NY-CO-27, L-36 lactose-binding protein, L36LBP, Lactose-binding lectin 4

PRODUCT SPECIFICATION

Molecular Weight

38.1 kDa (343aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

The ED50 \leq 2ug/ml. Measured by its ability to agglutinate human red blood cells.

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Galectin-4 belongs to a subfamily of galectins composed of two carbohydrate recognition domains within the

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same peptide chain. The galectins are a family of beta-galactoside-binding proteins implicated in modulating cell-cell and cell-matrix interactions, which inhibits chronic inflammations, GVHD, and allergic reactions. The expression of this gene is restricted to small intestine, colon, and rectum, and it is underexpressed in colorectal cancer. Recombinant Galectin-4 protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

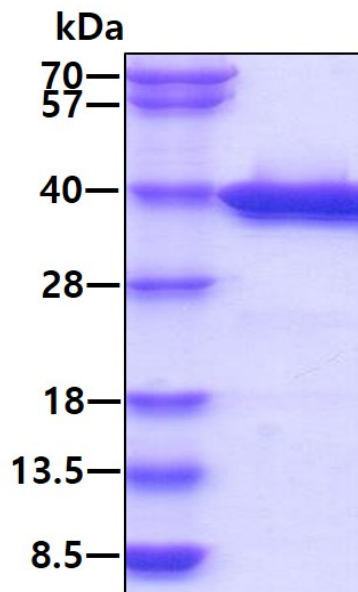
<MGSSHHHHH SSGLVPRGSH> MAYVPAPGYQ PTYNPTLPYY QPIPGGLNVG MSVYIQGVAS EHMKRFFVNF
VVGQDPGSDV AFHFNPRFDG WDKVVFNTLQ GGKWGSEERK RSMFCKKGA FELVFIVLAE HYKVVVNGNP FYEYGHRLPL
QMVTHLQVDG DLQLQSINFI GGQPLRPQP PMMPYPGPG HCHQQLNSLP TMEGPPTFNP PVPYFGRLQG GLTARRTIII
KGYVPPTGKS FAINFKVGSS GDIALHINPR MNGTIVVRNS LLNGSWGSEE KKITHNPFPG GQFFDLSIRC GLDRFKVYAN
GQHLDFFAHR LSAFQRVDTL EIQGDVTL SY VQI

General References

Huflejt ME., et al. (1997) *J Biol Chem.* 272(22):14294-303.
Huflejt ME., et al. (2004) *Glycoconj J.* 20(4):247-55.

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.