Recombinant mouse Galectin-4/LGALS4 protein

Catalog Number: ATGP1784

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-326aa

UniProt No.
Q8K419

NCBI Accession No.
NP_034836

Alternative Names
Galectin-4, Gal-4, Lactose-binding lectin 4

PRODUCT SPECIFICATION

Molecular Weight
38.8 kDa (349aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT

Purity
> 90% by SDS-PAGE

Biological Activity
The ED50 for this effect is equal or less than 5ug/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
Lgals4, also known as galectin4, belongs to a subfamily of galectins composed of two carbohydrate recognition domains within the 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

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underexpressed in colorectal cancer. Recombinant mouse Lgals4 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

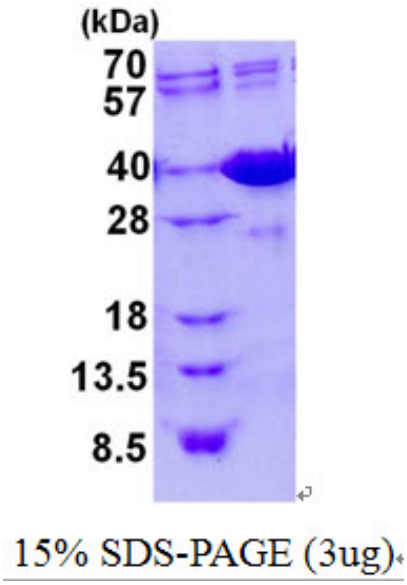
<MGSSHHHHHH SSGLVPRGSH MGS>MAYVPAP GYQPTYNPTL PYKRPIPGGL SVGMSVYIQG MAKENMRRFH VNFAVGQDDG ADVAFHFNPR FDGWDKVVFN TMQSGQWGKE EKKKSMPFQK GKHFELVFMV MPEHYKVVVN GNSFYEYGHR LPVQMVTHLQ VDGDLELQSI NFLGGQPAAA PYPGAMTIPA YPAGSPGYNP PQMNTLPVMT GPPVFNPRVP YVGALQGGLT VRRTIIIKGY VLPTARNFVI NFKVGSSGDI ALHLNPRIGD SVVRNSFMNG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

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



15% SDS-PAGE (3ug).

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