Recombinant mouse Galectin-3/LGALS3 protein

Catalog Number: ATGP3248

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-264aa

UniProt No.
Q8C253

NCBI Accession No.
NP_034835.1

Alternative Names
Gal-3, 35 kDa lectin, Carbohydrate-binding protein 35, CBP 35, Galactose-specific lectin 3, IgE-binding protein, L-34 galactoside-binding lectin, Laminin-binding protein, Lectin L-29, Mac-2 antigen, MAC2

PRODUCT SPECIFICATION

Molecular Weight
29.8 kDa (287aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 50% glycerol,1mM DTT, 2mM EDTA

Purity
> 95% by SDS-PAGE

Biological Activity
The ED50 for this effect is equal or higher than 25ug/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
LGALS3, also known as galectin 3, is a member of the family of animal lectins, which selectively binds beta-galactoside residues. This protein is secreted from cells by ectocytosis, which is independent of the classical

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secretory pathway through the endoplasmic reticulum/Golgi network. LGALS3 has been associated with the inhibition of apoptosis and the progression of cancer. It is normally distributed in epithelia of many organs, in various inflammatory cells, including macrophages, as well as dendritic cells and Kupffer cells. The expression of this lectin is up-regulated during inflammation, cell proliferation, cell differentiation and through trans-activation by viral proteins. Recombinant mouse LGALS3 protein, used to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

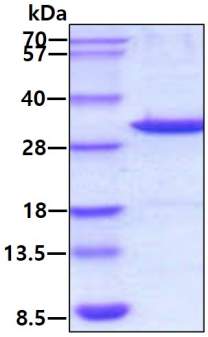
<MGSSHHHHHH SSGLVPRGSH MGS>MADSFSL NDALAGSGNP NPQGYPGAWG NQPGAGGYPG AAYPGAYPGQ APPGAYPGQA PPGAYPGQAP PSAYPGPTAP GAYPGPTAPG AYPGSTAPGA FPGQPGAPGA YPSAPGGYPA AGPYGVPAGP LTVPYDLPLP GGVMPRMLIT IMGTVKPNAN RIVLDFRRGN DVAFHFNPRF NENNRRVIVC NTKQDNNWGK EERQSAFPFE SGKPFKIQVL VEADHFKVAV NDAHLLQYNH RMKNLREISQ LGISGDITLT SANHAMI

General References

Barondes SH., et al. (1994) J Biol Chem. 269(33):20807-10.
Kadrofske MM., et al. (1998) Arch Biochem Biophys. 349(1):7-20.

DATA

SDS-PAGE



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