Recombinant mouse Galectin-1/LGALS1 protein

Catalog Number: ATGP1778

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-135aa

UniProt No.
P16045

NCBI Accession No.
NP_032521

Alternative Names
Gal-1, 14 kDa lectin, Beta-galactoside-binding lectin L-14-I, Galaptin, Lactose-binding lectin 1, Lectin galactoside-binding soluble 1, S-Lac lectin 1, GBP, Galbp, Lect14

PRODUCT SPECIFICATION

Molecular Weight
17 kDa (159aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

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
LGALS1 is a member of the beta-galactoside-binding proteins implicated in modulating cell-cell and cell-matrix interactions. This protein is an autocrine negative growth factor that regulates cell proliferation. It controls cell survival by inducing apoptosis of activated T cells and immature thymocytes, thus LGALS1 has immunosuppressive and anti-inflammatory properties. LGALS1 also regulates tumor angiogenesis and is a target for angiostatic cancer therapy. Recombinant mouse LGALS1 protein, fused to His-tag at N-terminus, was

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expressed in E. coli and purified by using conventional chromatography techniques

Amino acid Sequence

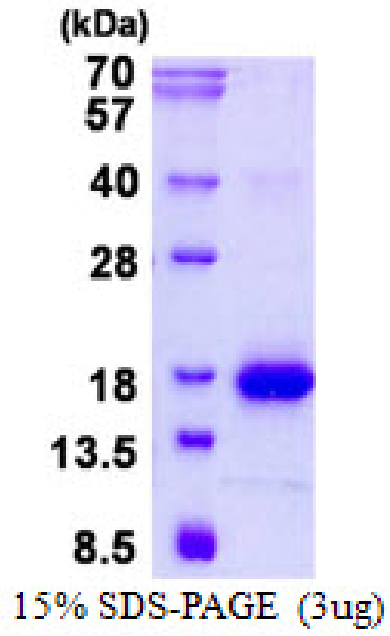
MGSSHHHHHH SSGLVPRGSH MGSHMACGLV ASNLNLKPGE CLKVRGEVAS DAKSFVLNLG KDSNNLCLHF NPRFNAHGDA NTIVCNTKED GTWGTEHREP AFPFQPGSIT EVCITFDQAD LTIKLPDGHE FKFPNRLNME AINYMAADGD FKIKCVAFE

General References

Ilarregui JM., et al. (2009). Nat Immunol. 10(9):981-91.
Gauthier L., Proc Natl Acad Sci u S A. 2002 Oct 1 99(20):13014-9.

DATA

SDS-PAGE



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