

Recombinant mouse Galectin-8/LGALS8 protein

Catalog Number: ATGP1772

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-316aa

UniProt No.

Q9JL15

NCBI Accession No.

NP_061374

Alternative Names

Lectin galactose binding soluble 8, Lgals-8

PRODUCT SPECIFICATION

Molecular Weight

38.6 KDa (339aa) 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, 20% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Biological Activity

Measured by its ability to agglutinate human red blood cells. The ED50 range for this effect is ≤ 2 ug/ml.

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

LGALS8, also known as prostate-specific membrane antigen (PCTA1), is an additional prostate-specific antigen that is overexpressed only in malignant tumors and therefore is a more specific identifier of malignancies. It is a member of the galectin gene family which mediates both cell-cell and cell matrix interactions in a manner similar to the selectin subgroup of C-type lectins. Recombinant mouse LGALS8 protein, fused to His-tag at N-terminus,

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

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MLSLNNL QNIIYNPIIP YVGTITEQLK PGSLIVIRGH VPKDSERFQV DFQLGNSLKP
RADVAFHFNP RFKRSSCIVC NTLTQEKWGW EEITYDMPFR KEKSFEIVFM VLKNKFQVAV NGRHVLLYAH RISPEQIDTV
GIYGKVNIHS IGFRFSSDLQ SMETSALGLT QINRENIQKP GKLQLSLPFE ARLNASMGPG RTVVIKGEVN TNARSFNVDL
VAGKTRDIAL HLNPRNLVKA FVRNSFLQDA WGEEERNITC FPFSSGMYFE MIIYCDVREF KVAINGVHSL EYKHRFKDLS
SIDTLSVDGD IRLLDVRSW

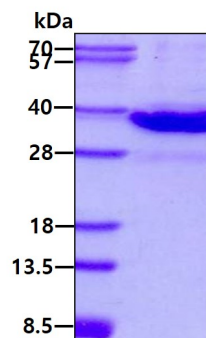
General References

Kobayashi T., et al. (2010) Leukemia. 24(4):843-50.

Streetly MJ., et al. (2010) Blood. 115(19):3939-48.

DATA

SDS-PAGE



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