

Recombinant human Galectin-8/LGALS8 protein

Catalog Number: ATGP0688

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-317aa

UniProt No.

O00214

NCBI Accession No.

NP_963837

Alternative Names

Prostate carcinoma tumor antigen 1, Po66-CBP, Po66 carbohydrate-binding protein, PCTA1, Galectin-8, Gal-8

PRODUCT SPECIFICATION

Molecular Weight

37.9 kDa (337aa) 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, 1mM DTT, 10% glycerol

Purity

> 90% by SDS-PAGE

Biological Activity

Measured by its ability to agglutinate human red blood cells. The ED50 range \leq 10 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 human 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> MMLSLNNLQN IYNPVIPIV GTIPDQLDPG TLIVIRGHVP SDADRFQVDL
QNGSSMKPRA DVAFHFNPRF KRAGCIVCNT LINEKWGREE ITYDTPFKRE KSFEIVIMVL KDKFQVAVNG KHTLLYGHRI
GPEKIDTLGI YGKVNHSIG FSFSSDLQST QASSLELLEI SRENVPKSGT PQLRLPFAAR LNTPMGPGRT VVVKGEVNAN
AKSFNVDLLA GKSKDIALHL NPRLNIKAFV RNSFLQESWG EEERNITSFP FSPGMYFEMI IYCDVREFKV AVNGVHSLEY
KHRFKELSSI DTLEINGDIH LLEVRSW

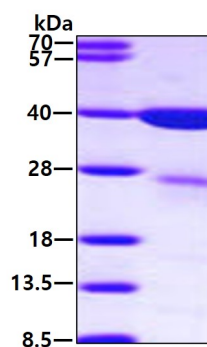
General References

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

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

DATA

SDS-PAGE



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