

Recombinant human Galectin-1/LGALS1 protein

Catalog Number: ATGP0385

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-135aa

UniProt No.

P09382

NCBI Accession No.

NP_002296.1

Alternative Names

Gal-1, 14 kDa laminin-binding protein, HLBP14, 14 kDa lectin, Beta-galactoside-binding lectin L-14-I, Galaptin, HBL, HPL, Lactose-binding lectin 1, Lectin galactoside-binding soluble 1, Putative MAPK-activating protein PM12, S-Lac lectin 1, GBP

PRODUCT SPECIFICATION

Molecular Weight

14.7 kDa (135aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

Non-Tagged

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

Galectin-1 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

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survival by inducing apoptosis of activated T cells and immature thymocytes, thus Galectin-1 has immunosuppressive and anti-inflammatory properties. Galectin-1 also regulates tumor angiogenesis and is a target for angiostatic cancer therapy. Recombinant human Galectin-1 was expressed in *E. coli* and purified by using conventional chromatography

Amino acid Sequence

MACGLVASNL NLKPGELRV RGEVAPDAKS FVLNLGKDSN NLCLHFNPRF NAHGDANTIV CNSKDGGAWG TEQREAVFPF QPGSVAEVCV TFDQANLTVK LPDGYEFKFP NRLNLEAINY MAADGDFKIK CVAFD

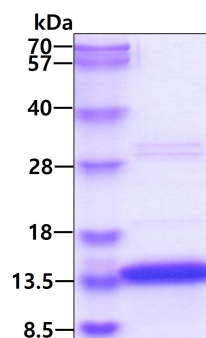
General References

Robert Kiss., et al. (2006). *Glycobiology*. 6(11):137R-157R

Poirier F., et al. (2009). *Dev Growth Differ*. 51(7):607-15.

DATA

SDS-PAGE



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