

Galectin 8 (GAL8) Active Protein | GAL8 active protein

Active Galectin 8 (GAL8)

CATALOG # AAA152175	HOST E. coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

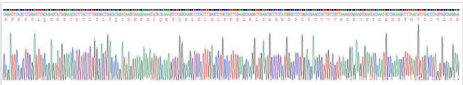
Galectin 8 (GAL8); Active Galectin 8 (GAL8); GAL8/Galectin 8; LGALS8; PCTA1; Po66-CBP; Prostate Carcinoma Tumor Antigen 1; Lectin; Galactoside-Binding Soluble 8; Po66 carbohydrate-binding protein; Prostate carcinoma tumor antigen 1; GAL8 active protein

PRODUCT SPECIFICATIONS

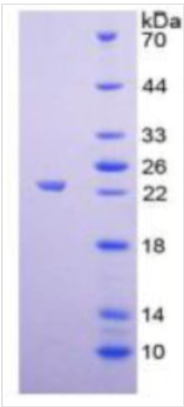
Host	E. coli
Purity/Purification	>95%
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose
Concentration	300ug/mL (varies by lot)
Applicable Applications for GAL8 active protein	Activity Assay, Cell Culture
Source	Prokaryotic expression
Residues	Arg151~Trp316
Tags	N-terminal His-tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric point	Predicted: 7.6
Reconstitute	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

RFSSDLQSME TSTLGLTQIS KENIQKSGKL HLSLPPEARL NASMGPGRTV
VVKGEVNTNA TSFNVDLVAG RSRDIALHLN PRLNVKAFVR NSFLQDANGE
EERNITCFPF SSGMYFEMII YCDVREFKVA VNGVHSLEYK HRFKDLSSID
TLAVDGDRL LDVRSW

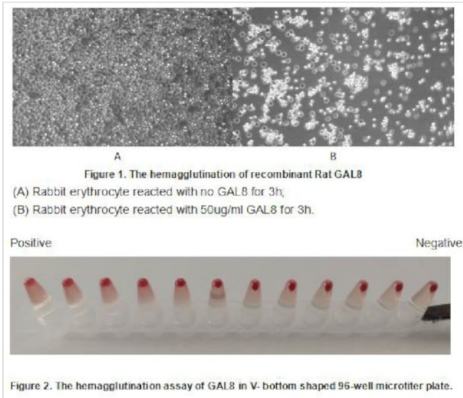
Sequence



Identification

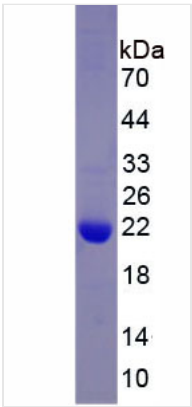


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Bioactivity

Galectin 8 (GAL8), also known as prostate carcinoma tumor antigen 1 (PCTA1) in human, is a tandem repeat-type galectin. is a member of the lectin family, of which 14 mammalian galectins have been identified. It is also a member of the beta-galactoside-binding protein family that plays an important role in cell-cell adhesion, cell-matrix interactions, macrophage activation, angiogenesis, metastasis, apoptosis. In this case, we chose rabbit erythrocyte (RaE) to assay its ability of agglutination. A general procedure for hemagglutination assay (or haemagglutination assay; HA) is as follows, two-fold dilute the recombinant Rat GAL8 with 0.9% sodium chloride injection, add 50uL a serial dilution of GAL8 to each well of a U or V-bottom shaped 96-well microtiter plate. The final well serves as a negative control with no GAL8, replace with 50uL 0.9% sodium chloride injection. Then add 50uL 1% rabbit erythrocyte to each well and mixed gently. The plate is incubated for 3 hours at room temperature. The results are shown in Figure 1. It was obvious that the minimal effective concentration of GAL8 is 1.5625 ug/mL.



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ADDITIONAL INFORMATION

Product Categories/Family for GAL8 active protein	Tumor immunity; Active proteins/AP
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NCBI AND UNIPROT INFORMATION

NCBI GI #	2842655
UniProt Accession #	Q62665
Molecular Weight	Predicted Molecular Mass: 22.4kDa Accurate Molecular Mass: 22kDa as determined by SDS-PAGE reducing conditions
NCBI Official Full Name	Galectin-8
UniProt Protein Name	Galectin-8
UniProt Gene Name	Lgals8
UniProt Synonym Gene Names	Gal-8
UniProt Entry Name	LEG8_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/galectin-8-gal8/152175>