

Galectin 8 (GAL8) Active Protein | GAL8 active protein

Active Galectin 8 (GAL8)

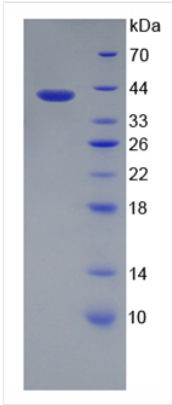
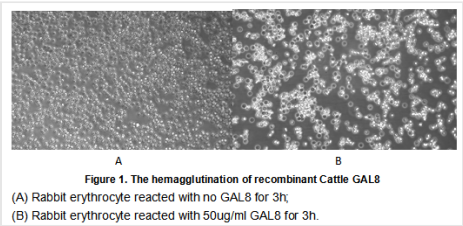
CATALOG # AAA152177	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

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	Greater than 90% by SDS-PAGE
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300. Freeze-dried powder
Sequence	Met1~Trp35 7
Applicable Applications for GAL8 active protein	Activity Assay, Cell Culture
Species	Bovine
Isoelectric Point	9
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months Stable for 12 months if correctly stored.



SDS-PAGE
SDS-PAGE

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 Bovine 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 0.781 ug/mL.

ADDITIONAL INFORMATION

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

NCBI GI #	114053345
NCBI GeneID	506977
NCBI Accession #	NP_001039419.1
NCBI GenBank Nucleotide #	NM_001045954.2
UniProt Accession #	Q2YDD7
Molecular Weight	40,127 Da
NCBI Official Full Name	galectin-8
NCBI Official Symbol	LGALS8
NCBI Official Synonym Symbols	galectin-8
NCBI Protein Information	galectin-8
UniProt Protein Name	Galectin
UniProt Gene Name	LGALS8

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.