

Galectin 3 Active Protein | GAL3 active protein

Active Galectin 3 (GAL3)

CATALOG #
AAA150087

APPLICATIONS
Activity Assay, Cell Culture

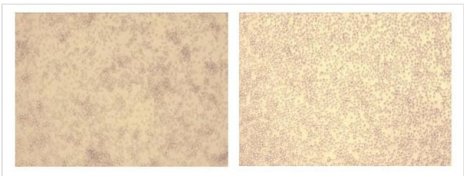
PRODUCT SYNONYMS

Galectin 3; Active Galectin 3 (GAL3); LGALS3; CBP35; GALBP; GALIG; MAC2; 35 kDa lectin; Carbohydrate-binding protein 35; Galactose-specific lectin 3; Galactoside-binding protein; Laminin-binding protein; Lectin L-29; GAL3 active protein

PRODUCT SPECIFICATIONS

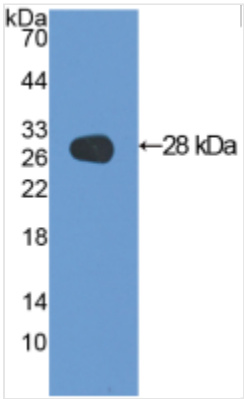
Purity/Purification	>90%
Form/Format	Freeze-dried powder 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Sequence Positions	Met1~Ile262
Sequence Length	131
Applicable Applications for GAL3 active protein	Activity Assay, Cell Culture
Species	Rat
Tag	N-terminal His Tag
Isoelectric Point	8.6
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. Stability: 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 degree 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.

IMAGES

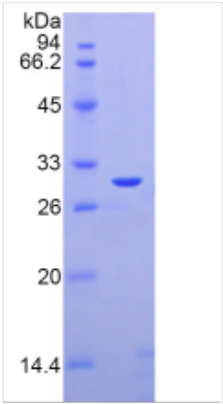


Application Data

Galectin 3 (GAL3) 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. The protein also has been demonstrated to be involved in cancer, inflammation and fibrosis, heart disease, and stroke. GAL3 is expressed in the nucleus, cytoplasm, mitochondrion, cell surface, and extracellular space. It also can agglutinate red blood. In this case, we choose rabbit erythrocyte (RaE) to assay its ability of agglutination. A general procedure for hemagglutination assay (HA) is as follows, two-fold dilute the recombinant rat GAL3 with 0.01M PBS (pH7.4), add 50L a serial dilution of GAL3 to each well of a U or V-bottom shaped 96-well microtiter plate. The final well serves as a negative control with no GAL3, replace with 50L 0.01M PBS. Then add 50L 1% RaE to each well and mixed gently. The plate is incubated for 1-2 hours at room temperature. The results are shown in Figure 1. The minimal effective concentration of GAL3 is 2.5g/mL. (A) 1% RaE treated with 2.5g/mL GAL3 for 2h; (B) Negative control without GAL3. Figure. The hemagglutination activity of recombinant rat GAL3.



WB (Western Blot)
Figure. Western Blot



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for GAL3 active protein	Infection immunity
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NCBI AND UNIPROT INFORMATION

NCBI GI #	149033557
NCBI GeneID	83781
UniProt Accession #	P08699
Molecular Weight	Predicted Molecular Mass: 28.5kDa Accurate Molecular Mass: 28kDa
NCBI Official Full Name	lectin, galactose binding, soluble 3, isoform CRA_c
NCBI Official Synonym Full Names	galectin 3
NCBI Official Symbol	Lgals3
NCBI Official Synonym Symbols	L-34; CBP30; gal-3; AGE-R3
NCBI Protein Information	galectin-3

UniProt Protein Name	Galectin-3
UniProt Gene Name	Lgals3
UniProt Synonym Gene Names	Gal-3; CBP 35
UniProt Entry Name	LEG3_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.

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Online datasheet: <https://stage.aaabiotech.com/gal3-active-protein/galectin-3/150087>