

Galectin 3 (GAL3) Active Protein | GAL3 active protein

Active Galectin 3 (GAL3)

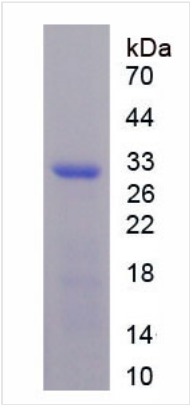
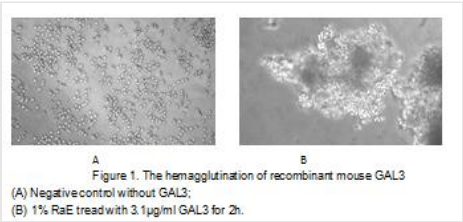
CATALOG # AAA152172	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
-------------------------------	-----------------------	---

PRODUCT SYNONYMS

Galectin 3 (GAL3); Active Galectin 3 (GAL3); GAL3/Galectin 3; 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

Host	E Coli
Purity/Purification	Greater than 97% 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	Ala2~Ile26 4
Applicable Applications for GAL3 active protein	Activity Assay, Cell Culture
Species	Mouse
Isoelectric Point	7.9
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 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 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 mouse GAL3 with 0.9% sodium chloride injection, add 50uL 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 without GAL3, 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 GAL3 is 3.1ug/ml.

ADDITIONAL INFORMATION

Product Categories/Family for GAL3 active protein	Infection immunity; Active proteins/AP
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	225543163
NCBI GeneID	16854
NCBI Accession #	NP_001139425.1
NCBI GenBank Nucleotide #	NM_001145953.1
UniProt Accession #	Q8C253; P16110
Molecular Weight	27,415 Da
NCBI Official Full Name	galectin-3
NCBI Official Synonym Full Names	lectin, galactose binding, soluble 3
NCBI Official Symbol	Lgals3
NCBI Official Synonym Symbols	GBP; L-34; gal3; Mac-2
NCBI Protein Information	galectin-3; 35 kDa lectin; CBP 35; L-34 galactoside-binding lectin; carbohydrate-binding protein 35; gal-3; galactose-specific lectin 3; i gE-binding protein; laminin-binding protein; lectin L-29; mac-2 antigen
UniProt Protein Name	Galectin
UniProt Gene Name	Lgals3
UniProt Entry Name	Q8C253_MOUSE

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.