

Active Recombinant Mouse LGALS3 protein, His-tagged

Cat. No. LGALS3-367M Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse LGALS3 protein(Q8C253)(2~264 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Mouse
Source	E.coli
ProteinLength	2-264 aa
Form	Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	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 50μL 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 50μL 0.9%

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sodium chloride injection. Then add 50µL 1% rabbit erythrocyte to each well and mixed gently. The plate is incubated for 3 hours at room temperature. The results are shown. It was obvious that the minimal effective concentration of GAL3 is 3.1µg/ml.

Molecular Mass	30.1kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 97% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Lgals3 lectin, galactose binding, soluble 3 [Mus musculus]
Official Symbol	LGALS3
Synonyms	LGALS3; lectin, galactose binding, soluble 3; galectin-3; gal-3; CBP 35; lectin L-29; 35 kDa lectin; mac-2 antigen; igE-binding protein; laminin-binding protein; galactose-specific lectin 3; L-34 galactoside-binding lectin; carbohydrate-binding protein 35; GBP; L-34; gal3; Mac-2;
Gene ID	16854
mRNA Refseq	NM_001145953

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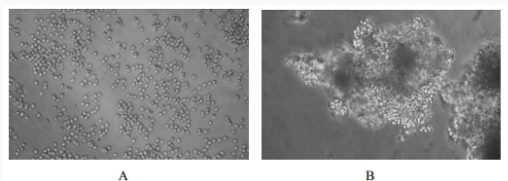
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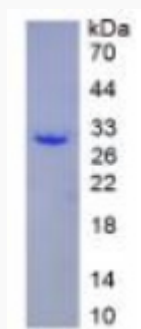
Protein Refseq

NP_001139425

Activity



SDS-PAGE



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