

Active Recombinant Human LGALS1 protein, His-tagged

Cat. No. LGALS1-1766H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human LGALS1 protein(P09382)(1~135 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-135 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Galectins are a family of carbohydrate-binding proteins with an affinity for beta-galactosides. Galectin-1 (GAL1) is differentially expressed by various normal and pathological tissues and appears to be functionally polyvalent, with a wide range of biological activity. The intracellular and extracellular activity of GAL1 has been described. Evidence points to GAL1 and its ligands as one of the master regulators of such immune responses as T-cell homeostasis and survival, T-cell immune disorders, inflammation and allergies as well as host-pathogen interactions. It also can agglutinate red blood. In this case, 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 human GAL1 with 0.9% sodium chloride injection, add 50μL a serial dilution of GAL1 to each well of a U or V-bottom shaped 96-well microtiter plate. The final well serves as a

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negative control without GAL1, replace with 50µL 0.9% 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 GAL1 is 2.5µg/mL.

Molecular Mass	18.4kDa
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 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	LGALS1 lectin, galactoside-binding, soluble, 1 [Homo sapiens]
Official Symbol	LGALS1
Synonyms	LGALS1; lectin, galactoside-binding, soluble, 1; galectin-1; galectin 1; GBP; HBL; HPL; gal-1; HLBP14; galaptin; 14 kDa lectin; S-Lac lectin 1; lactose-binding lectin 1; 14 kDa laminin-binding protein; putative MAPK-activating protein PM12; beta-galactoside-binding lectin L-14-I; beta-galactoside-binding protein 14kDa; GAL1; DKFZp686E23103;
Gene ID	3956

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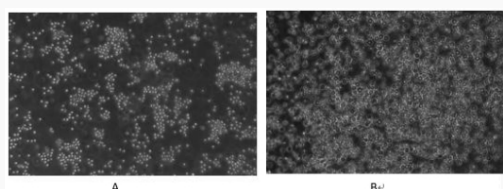
mRNA Refseq [NM_002305](#)

Protein Refseq [NP_002296](#)

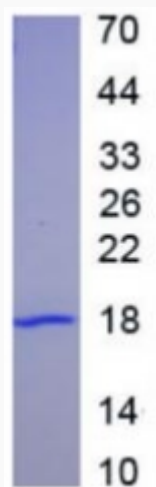
MIM [150570](#)

UniProt ID [P09382](#)

Activity



SDS-PAGE



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