# Active Recombinant Mouse Lgals7 protein, His-tagged

**Cat. No.** Lgals7-426M **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Active Recombinant Mouse Lgals7 protein(Q99ML7)(2~136 aa), fused with N-terminal His tag, was expressed in E.coli. |
| **Species** | Mouse |
| **Source** | E.coli |
| **ProteinLength** | 2-136 aa |
| **Form** | Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300. |
| **Bio-activity** | The galectins constitute a large family of carbohydrate-binding proteins with specificit y for N-acetyl-lactosamine-containing glycoproteins. At least 14 mammalian galectins, which share structural similarities in their carbohydrate recognition domains (CRD), h ave been identified. The galectins have been classified into the prototype galectins (-1, -2, -5, -7, -10, -11, -13, -14), which contain one CRD and exist either as a monomer or a noncovalent homodimer; the chimera galectins (Galectin-3) containing one CRD l inked to a nonlectin domain; and the tandem-repeat galectins (-4, -6, -8, -9, -12) consi sting of two CRDs joined by a linker peptide. Galectin-7 may also be involved in cell-c ell and cell-matrix interactions and exogenous galectin has been found to accelerate t he re-epithelialization of wounds It can agglutinate red blood.In this case, we chose ra bbit erythrocyte (RaE) to assay its ability of agglutination. A general procedure for he magglutination assay (or haemagglutination assay; HA) is as follows, two-fold dilute t |

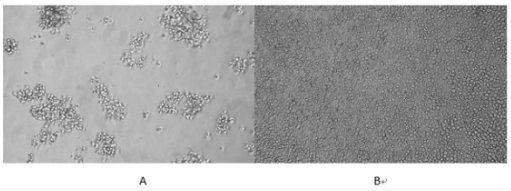
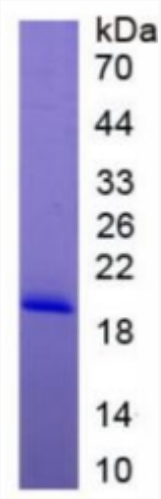
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| | he recombinant Mu GAL7 with 0.9% sodium chloride injection, add 50μL a serial dilution of GAL7 to each well of a U or V-bottom shaped 96-well microtiter plate. The final well serves as a negative control with no GAL7, replace with 50μL 0.9% sodium 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 GAL7 is 3.125 μg/mL. |
| **Molecular Mass** | 18.9kDa |
| **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

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| **Gene Name** | Lgals7 lectin, galactose binding, soluble 7 [ Mus musculus ] |
| **Official Symbol** | Lgals7 |
| **Synonyms** | LGALS7; lectin, galactose binding, soluble 7; galectin-7; gal-7; Pig1; Galectin-7; MGC151215; MGC151217; |
| **Gene ID** | 16858 |
| **mRNA Refseq** | NM_008496 |

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| **Protein Refseq** | NP_032522 |
| **Activity** |  |
| **SDS-PAGE** |  |



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