

Active Recombinant Rat Lgals4 protein, His-tagged

Cat. No. Lgals4-416R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rat Lgals4 protein(P38552)(19~324 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Rat
Source	E.coli
ProteinLength	19-324 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Galectin-4(GAL4) is a protein that in humans is encoded by the LGALS4 gene. The galectins are a family of beta-galactoside-binding proteins implicated in modulating cell-cell and cell-matrix interactions. LGALS4 is an S-type lectin that is strongly underexpressed in colorectal cancer. 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 rat GAL4 with 0.9% sodium chloride injection, add 50μL a serial dilution of GAL4 to each well of a U or V-bottom shaped 96-well microtiter plate. The final well serves as a negative control without GAL4, 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 GAL4 is 7.5μg/mL.

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Molecular Mass	38.1kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90% 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

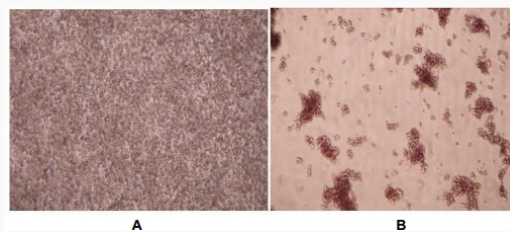
Gene Name	Lgals4 lectin, galactoside-binding, soluble, 4 [Rattus norvegicus]
Official Symbol	Lgals4
Synonyms	LGALS4; lectin, galactoside-binding, soluble, 4; galectin-4; gal-4; L36LBP; lactose-binding lectin 4; L-36 lactose-binding protein; Lectin galactose binding soluble 4 (Galectin-4); Lectin, galactose binding, soluble 4 (Galectin-4); lectin, galactoside-binding, soluble, 4 (galectin 4); L-36; L36LBI;
Gene ID	25474
mRNA Refseq	NM_012975
Protein Refseq	NP_037107

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Activity



SDS-PAGE

