Active Recombinant Human LGALS7 protein, His-tagged

Cat. No. LGALS7-425H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human LGALS7 protein(P47929)(1~136 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-136 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

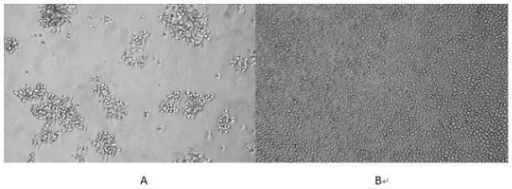
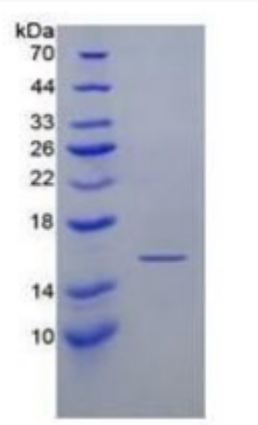
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	he recombinant human 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 f inal well serves as a negative control with no GAL7, replace with 50μL 0.9% sodium c hloride 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 6.25 μg/mL.
Molecular Mass	16.3kDa
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	LGALS7 lectin, galactoside-binding, soluble, 7 [Homo sapiens]
Official Symbol	LGALS7
Synonyms	LGALS7; lectin, galactoside-binding, soluble, 7; galectin-7; GAL7; galectin 7; LGALS7A; PIG1; TP53I1;
Gene ID	3963
mRNA Refseq	NM_002307

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Protein Refseq	NP_002298
MIM	600615
UniProt ID	P47929
Activity	
SDS-PAGE	

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