

## Active Recombinant Human LGALS9 protein, His-tagged

Cat. No. LGALS9-151H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Active Recombinant Human LGALS9 protein(O00182)(1~355 aa), fused with N-terminal His tag, was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	1-355 aa
<b>Form</b>	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Bio-activity</b>	<p>Galectin 9 (GAL9) is a member of the <math>\beta</math>-galactoside-binding galectin family. Galectin-9 is found outside of cells and may be exported by non-classical pathways. Galectin 9 exhibits a variety of biological activities, the majority of which have focused on its immunomodulatory role toward lymphocytes, were it shows specific interactions with TIM-3, and can negatively regulate Th1 type immunity. 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 human GAL9 with 0.9% sodium chloride injection, add 50<math>\mu</math>L a serial dilution of GAL9 to each well of a U or V-bottom shaped 96-well microtiter plate. The final well serves as a negative control with no GAL9, replace with 50<math>\mu</math>L 0.9% sodium chloride injection. Then add 50<math>\mu</math>L 1% rabbit erythrocyte to each well and mixed gently. The plate is incubated for 3 hours at</p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

room temperature. The results were shown. It was obvious that the minimal effective concentration of GAL9 is 3.125 µg/mL.

<b>Molecular Mass</b>	41.2kDa
<b>Endotoxin</b>	<1.0EU per 1µg (determined by the LAL method).
<b>Purity</b>	> 95% as determined by SDS-PAGE.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
<b>Reconstitution</b>	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	LGALS9 lectin, galactoside-binding, soluble, 9 [ Homo sapiens ]
<b>Official Symbol</b>	LGALS9
<b>Synonyms</b>	LGALS9; lectin, galactoside-binding, soluble, 9; galectin-9; galectin 9; LGALS9A; gal-9; ecalectin; tumor antigen HOM-HD-21; urate transporter/channel protein; HUAT; MGC117375; MGC125973; MGC125974;
<b>Gene ID</b>	3965
<b>mRNA Refseq</b>	NM_002308
<b>Protein Refseq</b>	NP_002299

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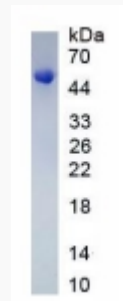
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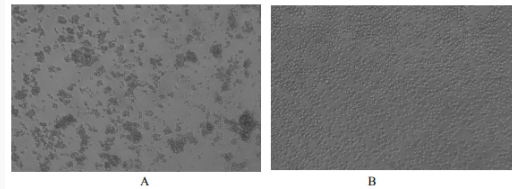
**MIM** 601879

**UniProt ID** O00182

**SDS-PAGE**



**Activity**



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