

# Recombinant Human Galectin-7/LGALS7 Protein

Catalog No.: RP02189

## Sequence Information

**Species**      **Gene ID**  
Human            3963

**Swiss Prot**    **Tags**  
P47929          No tag

**Synonyms**  
GAL7, LGALS7A, LGALS7

## Product Information

**Source**            **Purification**  
*E. coli*            ≥ 95 % as  
determined by  
SDS-PAGE.

**Calculated MW** **Observed MW**  
15.07 kDa        14 kDa

**Endotoxin**  
< 1 EU/μg of the protein by LAL  
method.

**Formulation**  
Lyophilized from a 0.2 μm filtered  
solution of 20mM Tris-HCl, 150mM  
NaCl, 1mM EDTA, 5% Trehalose,  
pH8.0. Contact us for customized  
product form or formulation.

**Reconstitution**  
Centrifuge the tube before  
opening. Reconstitute to a  
concentration of 0.1-0.5 mg/mL in  
sterile distilled water. Avoid vortex  
or vigorously pipetting the protein.  
For long term storage, it is  
recommended to add a carrier  
protein or stabilizer (e.g. 0.1% BSA,  
5% HSA, 10% FBS or 5%  
Trehalose), and aliquot the  
reconstituted protein solution to  
minimize free-thaw cycles.

## Background

The Galectin family of proteins, with specificity for N-acetylglucosamine containing glycoproteins, consists of beta-galactoside binding lectins containing homologous carbohydrate recognition domains (CRDs). They also possess hemagglutination activity, which is attributable to their bivalent carbohydrate binding properties. Galectins are active both intracellularly and extracellularly. Although they are localized primarily in the cytoplasm and lack a classical signal peptide; they can be secreted by one or more as yet unidentified non-classical secretory pathways. They have diverse effects on many cellular functions including adhesion, migration, polarity, chemotaxis, proliferation, apoptosis, and differentiation. Galectins may play a key role in many pathological states, including autoimmune diseases, allergic reactions, inflammation, tumor cell metastasis, atherosclerosis, and diabetic complications.

## Basic Information

### Description

Recombinant Human Galectin-7/LGALS7 Protein is produced by E.coli expression system. The target protein is expressed with sequence (Met1-Phe136) of human LGALS7 (Accession #P47929).

### Activity

### Shipping

Lyophilized proteins are shipped at ambient temperature.  
Liquid proteins are shipped at frozen temperature with dry ice.  
Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C

### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

## Contact

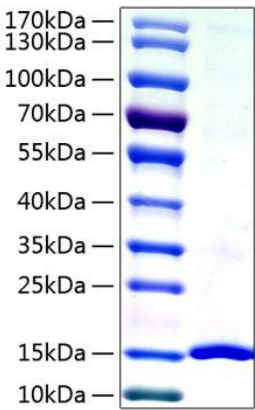
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# Validation Data

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Recombinant Human Galectin-7/LGALS7 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.