

# Recombinant Human Galectin-1/LGALS1 Protein (His Tag)



Catalog Number:PKSH032471

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

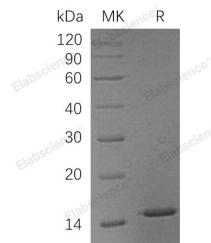
## Description

<b>Synonyms</b>	Galectin-1;Gal-1;14 kDa Laminin-Binding Protein;HLBP14;14 kDa Lectin;Beta-Galactoside-Binding Lectin L-14-I;Galaptin;HBL;HPL;Lactose-Binding Lectin 1;Lectin Galactoside-Binding Soluble 1;Putative MAPK-Activating Protein PM12;S-Lac Lectin 1;LGALS1;GAL1;GBP
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Ala2-Asp135
<b>Accession</b>	P09382
<b>Calculated Molecular Weight</b>	15.5 kDa
<b>Observed molecular weight</b>	15 kDa
<b>Tag</b>	N-His
<b>Bioactivity</b>	Measured by its ability to agglutinate human red blood cells. The ED <sub>50</sub> for this effect is < 2 µg/mL.

## Properties

<b>Purity</b>	> 98 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 0.1 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 98 % as determined by reducing SDS-PAGE.

## Background

Galectin-1 is a member of growing family of evolutionary conserved animal lectins. Galectin-1 is widely expressed in many cells and tissues. Galectins consists of a Galectin domain and two Beta-galactoside binding domains. Galectin-1 can binds LGALS3BP and interacts with CD2, CD3, CD4, CD7, CD43 and CD45. Galectin-1 may act as an autocrine

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negative growth factor which regulates apoptosis, cell proliferation and cell differentiation. In addition, Galectin-1 plays important roles in immunosuppressive and antiinflammatory properties.

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