



# Recombinant Protein Technical Manual

## Recombinant Human Galectin/LGALS1 Protein (His Tag)(Active)

RPES4593

### Product Data:

**Product SKU:** RPES4593

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P09382

### Protein Information:

**Molecular Mass:** 15.8 kDa

**AP Molecular Mass:** 15 kDa

**Tag:** C-6His

**Bio-activity:** Measured by its ability to agglutinate human red blood cells

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** 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.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 10mM PB, 200mM NaCl, 2mM DTT, pH 7.0.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Galectin; Gal; 14 kDa Laminin-Binding Protein; HLBP14; 14 kDa Lectin; Beta-Galactoside-Binding Lectin L4-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

## Immunogen Information:

**Sequence:** Ala2-Asp135

## Background:

Galectin is a member of growing family of evolutionary conserved animal lectins. Galectin is widely expressed in many cells and tissues. Galectins consists of a Galectin domain and two Beta-galactoside binding domains. Galectin can binds LGALS3BP and interacts with CD2, CD3, CD4, CD7, CD43 and CD45. Galectin may act as an autocrine negative growth factor which regulates apoptosis, cell proliferation and cell differentiation. In addition, Galectin plays important roles in immunosuppressive and antiinflammatory properties.