



# Recombinant Protein Technical Manual

## Recombinant Human Galectin 9/LGALS9 Protein (His Tag)(Active)

RPES4572

### Product Data:

**Product SKU:** RPES4572

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q3B8N1-2

### Protein Information:

**Molecular Mass:** 36.9 kDa

**AP Molecular Mass:** 49 kDa

**Tag:** C-6His

**Bio-activity:** Immobilized Human Galectin 9-His at 10µg/ml(100 µl/well) can bind Cynomolgus TIM-3-His(Cat: PKSQ050023). The ED50 of Human Galectin 9-His is 1.75 ug/ml .

**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 PBS,5% Trehalose,1mM EDTA,pH7.4.

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

**Application:** Functional ELISA

**Synonyms:** Galectin-9; Gal-9; Ecalectin; Tumor Antigen HOM-HD-21; LGALS9

## Immunogen Information:

**Sequence:** Met 1-Thr323

## Background:

Galectin-9 is a cytoplasmic protein that contains two galectin domains. Galectin-9 is an S-type lectin that is over-expressed in Hodgkin's disease tissue. Galectin-9 binds galactosides and has high affinity for the Forssman pentasaccharide. Galectin-9 plays a role in thymocyte-epithelial interactions relevant to the biology of the thymus and Inhibits cell proliferation. Galectin-9 is a ligand for HAVCR2/TIM3 and induces T-helper type 1 lymphocyte (Th1) death. In addition, Galectin-9 suppresses tumor cell metastasis by interfering with the associations CD44, VCAM, Integrin  $\alpha4\beta1$ .