



# Recombinant Protein Technical Manual

**Recombinant Mouse Galectin 9/LGALS9 Protein  
(GST Tag)  
RPES1711**

## Product Data:

**Product SKU:** RPES1711

**Size:** 10µg

**Species:** Mouse

**Expression host:** E. coli

**Uniprot:** O08573-2

## Protein Information:

**Molecular Mass:** 62.8 kDa

**AP Molecular Mass:** 58 kDa

**Tag:** N-GST

**Bio-activity:**

**Purity:** > 90% as determined by reducing SDS-PAGE.

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

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice. Upon receipt, store it immediately at < -20°C.

**Formulation:** Supplied as a 0.2 µm filtered solution of 20mM PB, 1mM EDTA, 5mM p-ME, 5%Trehalose, 400mM NaCl, pH6.5

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

**Application:**

**Synonyms:** Galectin-9; Lgals9; Gal-9

## Immunogen Information:

**Sequence:** Met1-Thr322

## 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  $\alpha4\beta1$ .