


## Human Galectin-1 Protein

Cat #: PRP1033

Size: 20µg/ 100µg/1mg

### Product Information

	<b>Product Name:</b> Human Galectin-1 Protein		
<b>REF</b>	<b>Catalog Number:</b> PRP1033	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> > 97% as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20C		<b>Preparation method:</b> E. coli
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** Galectin-1, a member of the galactose lectin family, is a homodimer with a molecular weight of 14 kDa subunits and six cysteine residues per subunit. Cysteine residues should be in a free state to maintain a molecular structure capable of displaying lectin activity. The expression or overexpression of Galectin-1 in tumor and/or peritumor tissues is considered a biomarker for the diagnosis, prognosis, and treatment of malignant tumor. It is involved in the adhesion and migration of tumor cells, cell transformation, tumor cell transfer and invasion to surrounding normal tissues, tumor angiogenesis, tumor growth and tumor immune escape. Regulates T cells, B cells, macrophages, granulocytes and other immune cells. Galectin-1 also acts as a potent homeostatic signal, which, along with other anti-inflammatory mediators and RAMP, limits immunopathology. Including: 1) inhibition of acute inflammation; 2) inhibition of T cell-mediated autoimmune diseases; 3) improve graft-versus-host disease; 4) Characterize the immune response in favor of Th2 type.

**Sequence:** Amino acid sequence derived from Human Galectin-1 (NP\_002296.1) (Met1- Asp135) was expressed.

**Protein length:** The recombinant Human Galectin-1 consists of 135 amino acids and predicts a molecular mass of 14 kDa.

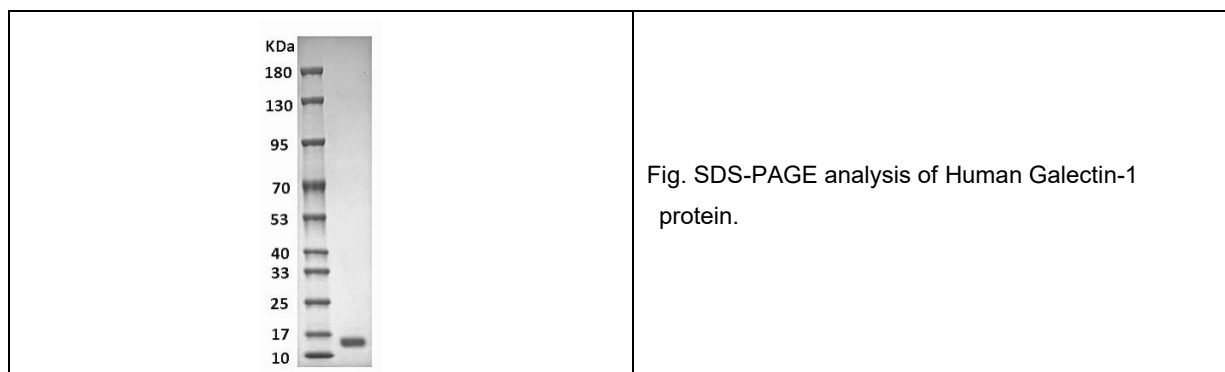
**Biological Activity:** Testing in progress.

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

**Formulation:** Lyophilized from sterile 20 mM PB with 50 mM NaCl, pH 7.4.

**Storage Instructions:** Lyophilized recombinant Human Galectin-1 Protein product should be stored desiccated below -20°C. Upon reconstitution, the protein should be stored at 4°C between 2 -7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant Human Galectin-1 protein using the buffer we provided not less than 100µg/ml, which can then be further diluted to other aqueous solutions.



**Note:** The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.