

## Recombinant Human Galectin-1 Protein

### Product Information

Product Name	Cat#	Size
Recombinant Human Galectin-1 Protein	92257ES10	10µg
	92257ES60	100µg
	92257ES76	500µg

### Product Description

Galectin-1, a polypeptidic factor that can have major effects on cell growth and apoptosis, is an important regulator of leukocyte function and tumor angiogenesis. Galectin-1 belongs to a family of 15 structurally related  $\beta$ -galactoside binding proteins that are able to control a variety of cellular events, including cell cycle regulation, adhesion, proliferation, and apoptosis. Human Galectin-1 shares 88% aa sequence identity with mouse, equine and ovine, 90% with rat, and 87% with bovine and porcine Galectin-1. Recombinant human galectin-1 to three porphyrin compounds: Zn-porphyrin (ZnTPPS); Mn-porphyrin and Au-porphyrin. These compounds are widely applied in the photodynamic therapy of cancer. Galectin-1 can also modulate cell-cell and cell-matrix interactions.

### Product Properties

<b>Synonyms</b>	Beta-galactoside-binding lectin L-14-I, BHL, DKFZp686E23103, GAL1, gal-1, Galaptin, galectin 1, Galectin1, Galectin-1, GBP, HBL, HLBP14, HPL, L-14, Lactose-binding lectin 1, LGALS1
<b>Accession</b>	P09382
<b>GeneID</b>	3956
<b>Source</b>	E.coli-derived Human Galectin-1, Ala2-Asp135.
<b>Molecular Weight</b>	Approximately 14.6 kDa.
<b>AA Sequence</b>	ACGLVASNLN LKPGECLRVR GEVAPDAKSF VLNLGKDSNN LCLHFNPRFN AHGDANTIVC NSKDGGAWGT EQREAVFPFQ PGSVAEVCIT FDQANLTVKL PDGYEFKFPN RLNLEAINYM AADGDFKIKC VAFD
<b>Tag</b>	None
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Purity</b>	> 95% by SDS-PAGE and HPLC analyses.
<b>Biological Activity</b>	The biological activity determined by a chemotaxis bioassay using human blood monocytes is in a concentration range of 1.0-10 ng/mL. Fully biologically active when compared to standard.
<b>Endotoxin</b>	< 0.1 EU per 1µg of the protein by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4, with 1 mM DTT. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
<b>Reconstitution</b>	Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $\leq -20^{\circ}\text{C}$ . Further dilutions should be made in appropriate buffered solutions.

### Shipping and Storage

The products are shipped with ice pack and can be stored at  $-20^{\circ}\text{C}$  for 1 year.

1 month,  $2$  to  $8^{\circ}\text{C}$  under sterile conditions after reconstitution.

3 months,  $-20^{\circ}\text{C}$  under sterile conditions after reconstitution.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

## **Cautions**

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!