

Product: **Recombinant Human Galectin-1**
Cat #: 300-119P
Powder

Description	Galectin-1 belongs to a large family of carbohydrate-binding proteins called lectins. Galectin-1 can be either monomeric or homodimeric and is found in a wide variety of cells and tissue types. Galectin-1 can control cell growth, proliferation, induce apoptosis of activated T cells while it can also modulate cytokine secretion or inhibit pro-inflammatory cytokine production. Galectin-1 plays an important role in acute and chronic inflammation. Alternate names: Beta-galactoside-binding lectin L-14-I, Galaptin, S-LAC lectin-I, L-14
MW	Non-glycosylated protein, containing 134 amino acids, with a molecular weight of 14.5 kDa.
Physical Appearance	Sterile filtered white lyophilized (freeze-dried) powder.
Source	<i>E. coli</i>
Formulation	Recombinant human Galectin-1 is lyophilized from 10 mM Na ₂ PO ₄ , pH 7.5
Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.
Stability	Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.
Biological Activity	The activity is determined by the ability to induce chemotaxis of human blood monocytes or THP-1 with a typical range of 0.5 – 3.0 µg/mL.
Endotoxin Level	Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein.
AA Sequence	ACGLVASNLN LKPGECRLVR GEVAPDAKSF VLNLGKDSNN LCLHFNPRFN AHGDANTIVC NSKDGGAWGT EQREAVFPFQ PGSAVEVCIT FDQANLTVKL PDGYEFKFPN RLNLEAINYM AADGDFKIKC VAFD

Purity greater than 95% determined by Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

Protein content determined by Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!