



## *Recombinant Human Galectin-3*

*Catalog Number: 100-154*  
*Accession Number: Q61BA7*

### *Specifications and Uses:*

**Alternate Names:** Galactose-specific lectin-3, IgE-binding protein, MAC2, L-29 CPB-35

**Description:**

Galectin-3 belongs to a large family of carbohydrate-binding proteins called lectins. Galectin-3 is expressed by a wide range of cell types including activated T cells, tumor cells, macrophages, osteoclasts, fibroblasts and epithelial cells and interacts with  $\beta$ -galactoside sugar moieties. Galectin-3 is associated with cancer, heart failure, stroke and inflammation. Human and mouse Galectin-3 share an 80% homology by amino acid sequence. Recombinant human Galectin-3 is a non-glycosylated protein, containing 250 amino acids, with a molecular weight of 26 kDa.

**Source:** *E.coli*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation and Stability:**

Recombinant human Galectin-3 is lyophilized from 10 mM Na<sub>2</sub>PO<sub>4</sub>, pH 7.5 and 50 mM NaCl at a concentration of 1 mg/mL. 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.

**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.

**Protein Content and Purity (typically  $\geq 97\%$ ) determined by:**

Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

**Endotoxin Level:**

Measured by kinetic LAL analysis and is typically  $\leq 1$  EU/ $\mu$ g protein.

**Biological Activity:**

The activity is determined by the ability to induce chemotaxis of human PBMCs at concentrations ranging from 2-220  $\mu$ g/mL.

**AA Sequence:**

ADNFSLHDAL SGSGNPNPQG WPGAWGNQPA GAGGYPGASY PGAYPGQAPP GAYPGQAPPG AYHGAPGAYP  
GAPAPGVYYPG PPSGPGAYPS SGQPSAPGAY PATGPYGA PA GPLIVPYNLP LPGGVVPRML ITILGTVKPN  
ANRIALDFQR GNDVAFHFNP RFNENNRRI VCNTKLDNNW GREERQSVFP FESGKPFKIQ VLVEPDHFKV  
AVNDAHLLQY NHRVKKLNEI SK

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

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