

## Recombinant Human Galectin-3

**CATALOG #:** 4684-10 10 µg  
4684-50 50 µg  
4684-1000 1 mg

**LOT #:** \_\_\_\_\_

**SOURCE:** *E. coli*

**PURITY:** >98% by SDS-PAGE  
Endotoxin level is <0.1 ng per µg.

**FORM:** Sterile filtered and lyophilized from 0.5X PBS, pH 7.2.

### RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

### STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated below 0°C. Reconstituted Galectin-3 should be stored in working aliquots at -20°C.

### DESCRIPTION:

Lectins are carbohydrate binding proteins that interact with glycoprotein and glycolipids on the surface of animal cells. The Galectins are lectins that recognize and interact with beta-galactoside moieties. Galactin-3 regulates a number of biological processes, including embryogenesis, inflammatory responses, cell progression and metastasis. Galectin-3 can function intracellularly in controlling cell cycle and preventing T-cell apoptosis, and also extracellularly, in activating various cells, including monocytes/macrophages, mast cells, neutrophils, and lymphocytes. Recombinant Galectin-3 is a globular 26.0 kDa protein containing 250 amino acid residues, but no disulfide bonds.

### BIOLOGICAL ACTIVITY:

Determined by its ability to chemoattract human blood monocytes. Chemotactic activity was observed at a concentration of 2.5 µg/ml with a peak response obtained at 250 µg/ml.

**FOR RESEARCH USE ONLY. Not to be used on humans**

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