

Recombinant Human Galectin-1

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|--------------------|---------|------------------|--------|
| Catalog No. | CRG000A | Quantity: | 10 µg |
| | CRG000B | | 50 µg |
| | CRG000C | | 1.0 mg |

Alternate Names: Galectin 1, GAL1, GBP

Gene ID: 3956

Protein Accession No: NP_002296

Description: LGALS1 belongs to a growing family of evolutionary conserved animal lectins. Galectins consist of beta-galactoside binding lectins that contain homologous carbohydrate recognition domains (CRDs). LGALS1 has the ability to induce apoptosis of activated T-cells and T-leukemia cell lines. Other activities include cell differentiation and inhibition activity of CD45 protein phosphatase activity. Galectin also binds beta-galactoside as well as CD45, CD3 and CD4. Recombinant human LGALS1 consists of 134 amino acid residues.

Source: *E. coli*

Molecular Weight: 14.5 kDa

Formulation: Lyophilized from a sterile filtered solution in 20 mM Tris, pH 7.5

Purity: > 98% as determined by SDS-PAGE analysis

Endotoxin Level: < 0.1 ng/µg of LGALS1

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.

Reconstitution: **Centrifuge vial prior to opening.** First add sterile distilled water to the vial to fully solubilize the protein to a concentration of 0.1-1.0 mg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.

Storage & Stability: Store lyophilized protein at -20°C to -80°C. Reconstituted protein is stable for 1 week at 2-4°C. For long term storage, aliquot and store at -20°C. **Avoid repeated freeze-thaw cycles.**

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