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Recombinant Human Galectin-3
Catalog # PBG10125

Specification

Recombinant Human Galectin-3 - Product Information

Recombinant Human Galectin-3 - Additional Information

Description
Lectins, of either plant or animal origin, 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 β-galactoside moieties. Galectin-3 regulates a number of biological processes, including embryogenesis, inflammatory responses, cell progression and metastasis. Galectin-3 is normally expressed in epithelia of a variety of tissues, including colon and endometrium, and in various inflammatory cells, including macrophages. 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. Expression of Galectin-3 is affected by neoplastic transformation, being up-regulated in certain types of lymphomas, and in thyroid and hepatic carcinomas. Conversely, it is down-regulated in other cancers, such as colon, breast, ovarian, and uterine. Recombinant human Galectin-3 is a globular 26.0kDa protein containing 250 amino acid residues, but no disulfide bonds.

BiologicalActivity
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.

Authenticity
Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin
Endotoxin level is <0.1 ng/ µg of protein (<1EU/ µg).

Protein Content
Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage
-20°C

Precautions
Recombinant Human Galectin-3 is for research use only and not for use in diagnostic or therapeutic procedures.

Recombinant Human Galectin-3 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides

- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Recombinant Human Galectin-3 - Images