Recombinant Human Galectin-3 Protein(His Tag)

Catalog Number: PDEH100578

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

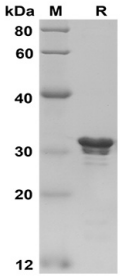
Description

Species	Human
Source	E.coli-derived Human Galectin-3 protein Met1-Ser94, with an N-terminal His
Calculated MW	27.4 kDa
Observed MW	32 kDa
Accession	P17931
Bio-activity	Not validated for activity

Properties

Purity	> 90% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Human Galectin-3 proteins, 2μg/lane of Recombinant Human Galectin-3 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 32 KD

Background

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Galectin-3 (Galectin 3) is a Protein Coding gene. This gene encodes a member of the galectin family of carbohydrate-binding proteins. The encoded protein is characterized by an N-terminal proline-rich tandem repeat domain and a single C-terminal carbohydrate recognition domain. Galectin-3 is a beta-galactoside-binding lectin and plays a role in numerous cellular functions including apoptosis, innate immunity, cell adhesion, and T-cell regulation. Galectin-3 has an important role in tumor progression through inhibition of apoptosis. Galectin-3 expression is associated with neoplastic transformation and with differentiation of monocytes to macrophages. Elevated expression of Galectin-3 has been demonstrated in the synovium of rheumatoid arthritis (RA). Diseases associated with Galectin-3 include Follicular Adenoma and Papillary Carcinoma.

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