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Human recombinant Galectin-3 protein, AF

Catalog Number: PROTP17931-4

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Overview

Product Name	Human recombinant Galectin-3 protein, AF
Description	Galectin-3 (Gal-3) is one of the lectin family members, which is the only chimera?type galectin, containing one carbohydrate recognition domain (CRD) connected to a long, flexible N?terminal domain. The C?terminal CRD is responsible for beta-galactoside binding, and the N?terminal domain is essential for its multimerization, and interaction with other intracellular proteins. Galectin-3 is predominantly presented in the cytoplasm and expressed on the cell surface, and then often secreted into biological fluids, such as serum and urine. Numerous studies have indicated that galectin-3 plays a crucial role in cell proliferation, apoptosis, gene expression, immune surveillance, inflammation, fibrosis, and host defense.
Size	5ug,20ug,100ug
Tag	His Tag (N-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.

Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Purity

>95% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 27 kDa. The protein migrates as 32 kDa under reducing condition (SDS-PAGE analysis).

Activity

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Measured by its ability to chemoattract human PBMC using a concentration range of 2.5-25 ug/mL. Note: Results may vary from different PBMC donors.

Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

ADNFSLHDALSGSGNPNPQGWPGAWGNQPAGAGGYPGASYPGAYPGQAPPGAYPGQAPPGAYPGAPGAYPGAPAPGVYPGPPSGPGAYPSSGQPS ATGAYPATGPYGAPAGPLIVPYNLPLPGGVVPRMLITILGTVKPNANRIALDFQRGNDVAFHFNPRFNENNRRVIVCNTKLDNNWGREERQSVFPFESG KPFKIQVLVEPDHFKVAVNDAHLLQYNHRVKKLNEISKLGISGDIDLTSASYTMI with polyhistidine tag at the N-terminus.

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

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Usage

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