

Human recombinant Galectin-3 protein, AF

Catalog Number: PROTP17931-4

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

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

ADNFSLHDALSGSGNPNPQGWPAGWGNQPAGAGGYPGASYPGAYPGQAPPGAYPGQAPPGAYPGAPGAYPGAPAPGVYPGPPSGPGAYPSSGQPS
ATGAYPATGPYGAAGPLIVPYNLPLPGGVVPRMLITILGTVKPNANRIALDFQRGNDVAFHFNPRFNENRRRVIVCNTKLDNNWGREERQSVFPFESG
KPFKIQVLVEPDHFKVAVNDAHLLQYNHRVKKLNEISKLGISGDIDLTASYTMI 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 H₂O 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.

Usage

Boster's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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