

Human recombinant Galectin-12 protein, AF

Catalog Number: PROTQ96DT0-2

Overview

Product Name	Human recombinant Galectin-12 protein, AF
Description	Galectin-12 (Gal-12) is a lectin family member and is one of the tandem repeat-type galectins containing two carbohydrate recognition domains (CRD) connected by a linker region in a single peptide chain. The CRD is responsible for beta-galactoside binding and is required to interact with the VPS13C protein. It has been reported that galectin-12 is presented in the adipose tissue but also expressed in macrophages and other leukocytes. Galectin-12 participates in many biological activities including cell cycle regulation, apoptosis, and cell differentiation. Moreover, galectin-12 has emerged as a crucial factor in driving the macrophage to M1 polarization, leading to inflammation and reducing insulin sensitivity in adipocytes.
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

>98% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 38.4 kDa. The protein migrates as 38 kDa under reducing condition (SDS-PAGE analysis).

Activity

Testing in process

Endotoxin

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

Amino Acid Sequence

SQPSGGRAPGTRIYSWSCPTVMSPGEKLDPIPDSEFILQPPVFHPVVPYVTTIFGGLHAGKMVMLQGCVPLDAHRFQVDFQCGCSLCPRPDIAFHFNPRF
HTTKPHVICNTLHGGRWQREARWPHLALRRGSSFLILFLFGNEEVKVSNGQHFLHFRYRLPLSHVDTLGIFGDILVEAVGFLNINPFVEGSREYPAGHPF
LLMSPRLEVPCSHALPQGLSPGQVIVRGLVLQEPKHFTVSLRDQAAHAPVTLRASFAADRTLAWISRWGQKKLISAPFLFYPQRFFEVLILLFQEGGLKLAL
NGQGLGATSMNQALEQLRELISGSVQLYCVHS 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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