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Human recombinant Galectin-7 protein, AF

Catalog Number: PROTP47929-3

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Overview

Product Name	Human recombinant Galectin-7 protein, AF
Description	Galectin-7 (Gal-7) is a lectin family member and is one of the prototype galectins. It contains one carbohydrate recognition domain (CRD), responsible for beta-galactoside binding, and is biologically active as homodimers. Galectin-7 is constitutively presented in the gastrointestinal tract, stratified epithelia, skin, and fetal heart. It has been reported that galectin-7 serves as an effector in triggering apoptosis following activation of the p53 pathway. Furthermore, it serves important functions in numerous biological activities including cell adhesion, migration, proliferation, and differentiation.
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 15.9 kDa. The protein migrates as 18 kDa under reducing condition (SDS-PAGE analysis).

Activity

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Measured by its ability to agglutinate human red blood cells. The ED_{50} for this effect is <2 ug/mL.

Endotoxin

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

Amino Acid Sequence

SNVPHKSSLPEGIRPGTVLRIRGLVPPNASRFHVNLLCGEEQGSDAALHFNPRLDTSEVVFNSKEQGSWGREERGPGVPFQRGQPFEVLIIASDDGFKAV VGDAQYHHFRHRLPLARVRLVEVGGDVQLDSVRIF 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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