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Human recombinant Galectin-1 protein, AF

Catalog Number: PROTP09382-3

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Overview

Product Name	Human recombinant Galectin-1 protein, AF
Description	Galectin-1 (Gal-1) is a lectin family member. Galectin-1 contains one carbohydrate recognition domain (CRD), responsible for beta-galactoside binding, and is biologically active as homodimers. Several binding partners for galectin-1 have been identified, including CD45, CD43, CD69, pre-BCR, and vascular endothelial Growth Factors R2. Galectin-1 is constitutively presented in the immune system and other tissues, contributing to cell growth, proliferation, and apoptosis. The galectin-1 plays a central role in regulating acute and chronic inflammatory responses.
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 15.5 kDa. The protein migrates as 15 kDa under reducing condition (SDS-PAGE analysis).

Activity

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

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Endotoxin

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

Amino Acid Sequence

ACGLVASNLNLKPGECLRVRGEVAPDAKSFVLNLGKDSNNLCLHFNPRFNAHGDANTIVCNSKDGGAWGTEQREAVFPFQPGSVAEVCITFDQANLT VKLPDGYEFKFPNRLNLEAINYMAADGDFKIKCVAFD 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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