

Human recombinant Galectin-8 protein, AF

Catalog Number: PROTO00214-3

Overview

Product Name	Human recombinant Galectin-8 protein, AF
Description	Galectin-8 (Gal-8) 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 the binding partners for galectin-8 have been identified, including CD44 and a subset of integrins. Galectin-8 and integrins form complexes, subsequently leading to phosphorylation of paxillin and focal adhesion kinase (FAK), which activates signal pathways including MAPK-ERK and PI3K-AKT pathways. Galectin-8 is constitutively presented in the Liver, kidney, cardiac muscle, lung, and brain. Galectin-8 serves as an immunosuppressive protective role against autoimmune CNS inflammation, regulating the balance of Th17 and Th1 polarization.
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 36.6 kDa. The protein migrates as 34 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measured by its ability to agglutinate human red blood cells. The ED₅₀ for this effect is <8 ug/mL.

Endotoxin

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

Amino Acid Sequence

MLSLNNLQNIINYNPVIFVGTIPDQLDPGTLIVIRGHVPSDADRFQVDLQNGSSMKPRADVAHFHFNPRFKRAGCIVCNTLINEKWGREEITYDTPFKREKS
FEIVIMVLKDKFQVAVNGKHTLLYGHRIGPEKIDTLGIYGKVNHSIGFSFSSDLQSTQASSLELTEISRENVPKSGTPQLRLPFAARLNTPMGPGRTVVVKG
EVNANAKSFNVDLLAGKSKDIALHLNPRLNIKAFVRNSFLQESWGEEERNITSFPFSPGMYFEMIIYCDVREFKVAVNGVHSLEYKHRFKELSSIDTLEING
DIHLLEVRWS 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

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