

## Human recombinant Galectin-14 protein, AF

Catalog Number: PROTQ8TCE9-2

### Overview

Product Name	Human recombinant Galectin-14 protein, AF
Description	Galectin-14 (Gal-14) 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-14 is like Galectin-13, which is expressed in the placenta, contributing to T cell apoptosis, immune regulation, and immune tolerance, which is indispensable for fetal development. The galectin-14 enhances trophoblast migration and invasion via promoting the expression of MMP-9 and N-cadherin in the Akt pathway. Furthermore, galectin-14 stimulates the production of IL-8 in non-activated T cells, which associate with angiogenesis at the maternal-fetal interface.
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 16.9 kDa. The protein migrates as 17 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**

SSLPVPYTLPVSLPVGSCVIITGTPILTFVKDPQLEVN FYTGMD ESDIAFQFRLHFGHPAIMNSCVFGIWR YEEKCYL PFEDGKPFELCIYVRHKEYKVM  
VNGQRIYNFAHRFPPASVKMLQVFRDISLTRVLISD 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<sub>2</sub>O 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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