

Human Galectin-14, His Tag, E. coli

Catalog Number	LDG150PHE
Package	5 µg / 20 µg / 100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



Specifications

Species of Origin

Human

Expression System

Escherichia coli

Affinity Tag

His Tag (N-term)

Storage Buffer

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Purity

>98% as determined by SDS-PAGE analysis.

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

Measure by its ability to chemoattract human THP1 cells using a concentration range of 0.5-2.5 µg/mL.

Endotoxin Level

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

Form

Lyophilized

Background

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Background

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 β -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.

Uniprot ID

#Q8TCE9

Synonyms

Gal-14, Placental protein 13-like, Charcot-Leyden crystal protein 2, CLC2

Sequence Note

Ser2-Asp139

Instruction

Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration of 200 μ g/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Stability & Storage

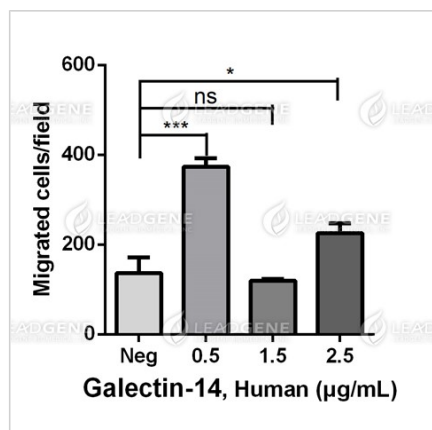
This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

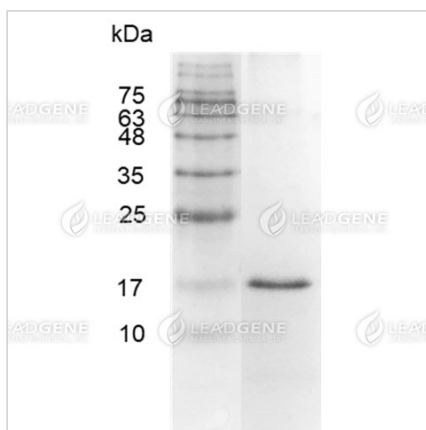
Avoid repeated freeze/thaw cycles.

Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

Image


Measure by its ability to chemoattract human THP1 cells using a concentration range of 0.5-2.5 µg/mL. Activity analysis of recombinant Human Galectin-14, His Tag, E. coli.



SDS-PAGE analysis of recombinant human Galectin-14.

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