

## Human Galectin-12, His Tag, E. coli

<b>Catalog Number</b>	LDG148PHE
<b>Package</b>	5 µg / 20 µg / 100 µg / Customized package

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



### Specifications

#### Species of Origin

Human

#### Affinity Tag

His Tag (N-term)

#### Purity

>98% as determined by SDS-PAGE analysis.

#### Activity

Measure by its ability to chemoattract human THP1 cells using a concentration range of 10-100 ng/mL.

#### Form

Lyophilized

#### Expression system

Escherichia coli

#### Buffer

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

#### Molecular weight

The protein has a calculated MW of 38.4 kDa. The protein migrates as 38 kDa under reducing condition (SDS-PAGE analysis).

#### Endotoxin level

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

### Background

#### Tainan Headquarter

+886-6-2536677

bd@leadgene.com.tw

#### Innovation & Research Center

+886-2-27065528

#### CLD Center

+886-6-2536677

### Background

Galectin-12 (Gal-12) 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 is required to interact with the VPS13C protein. It has been reported that galectin-12 is presented in the adipose tissue but also expressed in macrophages and other leukocytes. Galectin-12 participates in many biological activities including cell cycle regulation, apoptosis, and cell differentiation. Moreover, galectin-12 has emerged as a crucial factor in driving the macrophage to M1 polarization, leading to inflammation and reducing insulin sensitivity in adipocytes.

### Uniprot ID

Q96DT0

### Synonyms

Gal-12, Galectin-related inhibitor of proliferation

### Sequence Note

Ser2-Ser336

## Instruction

### Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration of 200  $\mu$ g/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

### Stability & Storage

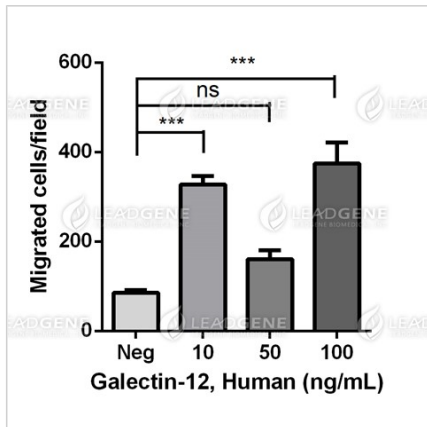
This product is stable after storage at:

- -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.

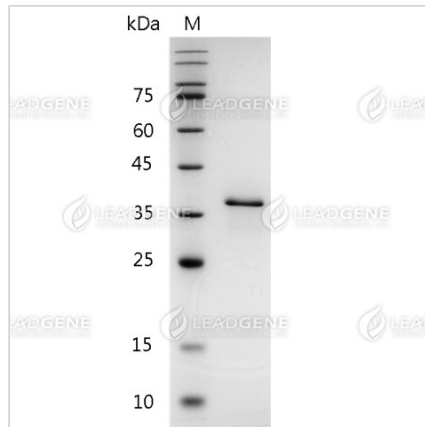
Avoid repeated freeze/thaw cycles.

### Shipping

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

**Image**


Activity analysis of recombinant Human Galectin-12, His Tag, E. coli. Measure by its ability to chemoattract human THP1 cells using a concentration range of 10-100 ng/mL.



SDS-PAGE analysis of recombinant human Galectin-12.

**Disclaimer :** For Research Use or Further Manufacturing Only.