## Overview

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Recombinant human Galectin 1 protein</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Protein length</strong></td>
<td>Full length protein</td>
</tr>
</tbody>
</table>

## Description

<table>
<thead>
<tr>
<th><strong>Nature</strong></th>
<th>Recombinant</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Source</strong></td>
<td>Escherichia coli</td>
</tr>
</tbody>
</table>

### Amino Acid Sequence

<table>
<thead>
<tr>
<th>Species</th>
<th>Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human</td>
<td>ACGLVASNLN LKPGECLRVR GEVAPDAKSF VLNGLKDSDNN LCLHFNPRFN AHGDANTIVC NSKDGGAWGT EQREAVFPFQ PGSVAEVCIT FDQANLTVKL PDGYEFKFPN RLNLEAINYM AADGDFKIKC VAFD</td>
</tr>
</tbody>
</table>

## Specifications

Our **Abpromise guarantee** covers the use of **ab50237** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

### Applications

- SDS-PAGE
- Functional Studies

### Endotoxin level

< 0.100 Eu/µg

### Purity

> 95 % SDS-PAGE.

### Form

Lyophilised

### Additional notes

Determined by its ability to chemoattract human blood monocytes. Chemotactic activity was observed at a concentration of 2.5 µg/ml with a peak response obtained at 250 µg/ml.

## Preparation and Storage

**Stability and Storage**

Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Preservative: None
Endotoxin level is less than 0.1 ng per µg (1EU/µg).

This product is an active protein and may elicit a biological response in vivo, handle with caution.

**Reconstitution**
Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C; for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C; to -80°C;.

**General Info**

**Function**
May regulate apoptosis, cell proliferation and cell differentiation. Binds beta-galactoside and a wide array of complex carbohydrates. Inhibits CD45 protein phosphatase activity and therefore the dephosphorylation of Lyn kinase.

**Tissue specificity**
Expressed in placenta, maternal decidua and fetal membranes. Within placenta, expressed in trophoblasts, stromal cells, vilious endothelium, syncytiotrophoblast apical membrane and villous stroma. Within fetal membranes, expressed in amnion, chorioamniotic mesenchyma and chorion (at protein level). Expressed in cardiac, smooth, and skeletal muscle, neurons, thymus, kidney and hematopoietic cells.

**Sequence similarities**
Contains 1 galectin domain.

**Cellular localization**
Secreted > extracellular space > extracellular matrix.

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**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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**Our Abpromise to you: Quality guaranteed and expert technical support**

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit [https://www.abcam.com/abpromise](https://www.abcam.com/abpromise) or contact our technical team.

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