

## Recombinant Human LGALS16 Protein (Ser2-Arg142), N-His tagged, Animal-free, Carrier-free

**Cat. No.** LGALS16-32H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human LGALS16 Protein (Ser2-Arg142) with N-His tag was expressed in E. coli and Animal-free as well as Carrier-free.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | Ser2-Arg142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | Galectin-16 (Gal-16) is a lectin family member and is one of the prototype galectins, but it exists as a monomer, and it is remarkably different from other prototype galectins in $\beta$ -galactoside binding. Like galectin-13 and galectin-14, Galectin-16 is expressed in the placenta, contributing to T cell apoptosis, immune regulation, and immune tolerance, which is indispensable for fetal development. The molecular mechanism has been demonstrated that galectin-16 forms complex with c-Rel, suggesting galectin-16-activated signal transduction pathways via the c-Rel hub in B or T cells at the maternal-fetal interface. |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 17.4 kDa.<br>The protein migrates as 18 kDa under reducing condition (SDS-PAGE analysis).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Endotoxin</b>        | < 0.1 EU/ $\mu$ g of the protein by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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|                       |                                                                                                                                                                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | >98% as determined by SDS-PAGE analysis.                                                                                                                                                                                                                         |
| <b>Storage</b>        | <p>This product is stable after storage at:</p> <p>-20 centigrade for 12 months in lyophilized state from date of receipt.</p> <p>-20 or -80 centigrade for 1 month under sterile conditions after reconstitution.</p> <p>Avoid repeated freeze/thaw cycles.</p> |
| <b>Storage Buffer</b> | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.                                                                                                                                                                                                      |
| <b>Reconstitution</b> | It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.                                                       |
| <b>Shipping</b>       | The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.                                                                                                                                    |

## GENE INFORMATION

|                        |                                                                                                                          |
|------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | LGALS16 galectin 16 [ Homo sapiens (human) ]                                                                             |
| <b>Official Symbol</b> | LGALS16                                                                                                                  |
| <b>Synonyms</b>        | LGALS16; galectin 16; galectin-16; beta-galactoside-binding lectin; lectin, galactoside-binding, soluble, 16; EC 3.1.1.5 |
| <b>Gene ID</b>         | <a href="http://www.ncbi.nlm.nih.gov/gene/148003">www.ncbi.nlm.nih.gov/gene/148003</a>                                   |
| <b>mRNA Refseq</b>     | <a href="#">NM_001190441</a>                                                                                             |
| <b>Protein Refseq</b>  | <a href="#">NP_001177370</a>                                                                                             |

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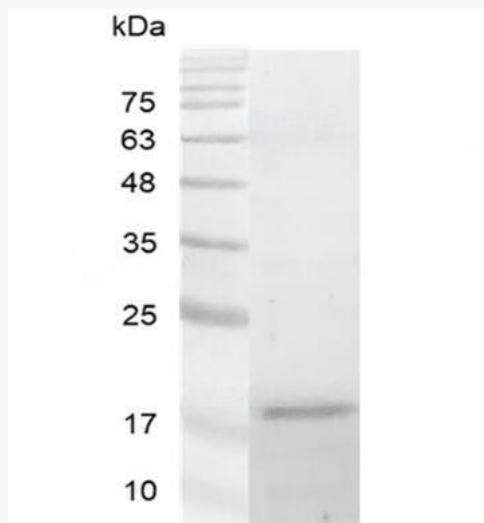
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UniProt ID

A8MUM7

**SDS-PAGE analysis  
of recombinant  
human Galectin-16.**



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