

# Datasheet

## Human Galectin-4 / LGALS4 / L36LBP Protein, His tag

Catalog # GA4-H5246

For Research Use Only

### Description

**Source** Human Galectin-4, His tag (GA4-H5246) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Ile 323 (Accession # P56470-1). Predicted N-terminus: His

**Predicted N-terminus** His

**Protein Structure**

Poly-his	Galectin-4(Met 1 - Ile 323) P56470-1
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**Molecular Characterization** This protein carries a polyhistidine tag at the N-terminus. The protein has a calculated MW of 38.1 kDa. The protein migrates as 40-44 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin** Less than 1.0 EU per µg by the LAL method.

**Purity** >95% as determined by SDS-PAGE.

### Formulation and Storage

**Formulation** Lyophilized from 0.22 µm filtered solution in 50 mM HEPES, 150 mM NaCl, pH7.4. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

**Reconstitution** Please see Certificate of Analysis for specific instructions. For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

**Storage** For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles.

No activity loss was observed after storage at:

- 4-8°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

### Background

**Background** Galectin-4 (Gal-4), also known as L36LBP (L-36 lactose-binding protein). The galectins are a family of beta-galactoside-binding proteins implicated in modulating cell-cell and cell-matrix interactions. Galectin-4 expression is concentrated within microvilli in the gastrointestinal epithelium, where it can interact with CD3 and bind activated T cells in the lamina propria during intestinal inflammation. LGALS4 is an S-type lectin that is strongly underexpressed in colorectal cancer.

- References**
- (1) Barondes SH., et al., 1994, J. Biol. Chem. 269 (33): 20807-20810.
  - (2) Yang, RY., et al., 2008, Expert Rev. Mol. Med. 10: e17.
  - (3) Ideo H., et al., 2007, J. Biol. Chem. 282 (29): 21081-21089.

Please contact us at [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com), if you have any questions about this product.

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## Human Galectin-4 / LGALS4 / L36LBP Protein, His tag

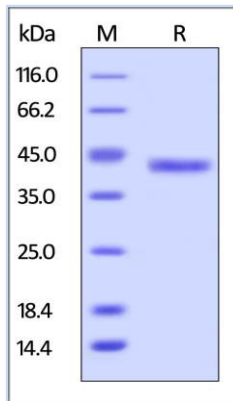
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### Assay Data

#### SDS-PAGE Data



Human Galectin-4, His tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.