

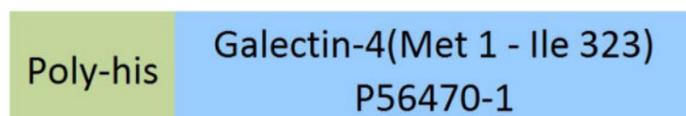
**Synonym**

LGALS4,L36LBP,Gal-4,Antigen NY-CO-27,Lactose-binding lectin 4

**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

**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**

Lyophilized from 0.22 µm filtered solution in 50 mM HEPES, 150 mM NaCl, 5 mM EDTA, 2 mM TCEP, 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.*

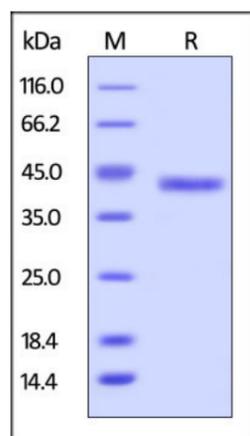
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

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%.

**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 via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.