

Human Galectin-3 / LGALS3 Protein, Low Endotoxin

Catalog Number: 10289-HNAE-E



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

CBP35; GAL3; GALBP; GALIG; L31; LGALS2; MAC2

Protein Construction:

A DNA sequence encoding the human Galectin3 (P17931) (Met 1-Ile 250) was expressed and purified.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 97 % as determined by SDS-PAGE

Bio Activity:

Measured by its ability to agglutinate human red blood cells. The ED_{50} for this effect is typically 3-15 μ g/ml.

Endotoxin:

< 0.005 EU per μ g of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met 1

Molecular Mass:

The recombinant human Galectin3 consisting of 250 amino acids and has a calculated molecular mass of 26.1 kDa. It migrates as an approximately 30 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

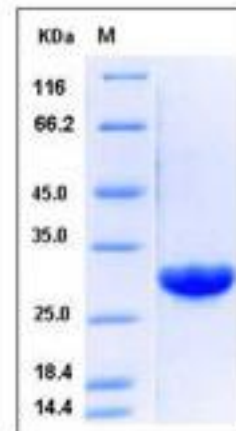
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

LGALS3, a member of the lectin family, has an important role in tumor progression through inhibition of apoptosis. The galectin-3 gene (LGALS3) encodes a beta-galactose binding lectin. LGALS3 expression is associated with neoplastic transformation and with differentiation of monocytes to macrophages. Galectin-3 is a beta-galactoside-binding lectin which is involved in modulating inflammation and apoptosis. Elevated expression of galectin-3 has been demonstrated in synovium of rheumatoid arthritis (RA).

References

1. Domic J, *et al.* (2006) Galectin-3: an open-ended story. *Biochim Biophys Acta.* 1760(4): 616-35.
2. Sharma UC, *et al.* (2004) Galectin-3 marks activated macrophages in failure-prone hypertrophied hearts and contributes to cardiac dysfunction. *Circulation.* 110(19): 3121-8.
3. Yan YP, *et al.* (2009) Galectin-3 mediates post-ischemic tissue remodeling. *Brain Res.* 1288: 116-24.

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