

For Research Use Only

Recombinant Human Galectin-3 protein (His Tag)



Catalog Number: Eg0227

Basic Information

ED50:
3-12 ng/mL

GeneID:
3958

Species:
Human

Accession:
P17931

Purity:
>95 %, SDS-PAGE

Technical Specifications

Purity:
>95 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/ μ g protein, LAL method

Source:
HEK293-derived Human Galectin-3 protein Ala2-Ile250 (Accession# P17931) with a His tag at the C-terminus.

Predicted Molecular Mass:
26.8 kDa

SDS-PAGE:
32-45 kDa, reducing (R) conditions

Formulation:
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Immobilized Human Galectin-3 (His tag) at 0.5 μ g/mL (100 μ L/well) can bind Human CD146 (GST tag) with a linear range of 3-12 ng/mL.

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Galectins are a family of animal lectins defined by shared characteristic amino-acid sequences and affinity for β -galactose-containing oligosaccharides. Galectin-3, a 31-kDa member of the β -galactoside-binding proteins, contains one carbohydrate recognition domain (CRD) and a proline- and glycine-rich N-terminal domain through which is able to form oligomers. Galectin-3 is widely expressed in many normal tissues and a variety of tumors. It is found intracellularly in nucleus and cytoplasm or secreted outside of cell, being present on the cell surface or in the extracellular space. Galectin-3 is involved in various biological processes including cell growth, adhesion, differentiation, apoptosis, angiogenesis, immune response, neoplastic transformation and metastasis. Elevated serum galectin-3 levels have been reported in patients with breast, gastrointestinal, lung, or ovarian cancer, melanoma, and non-Hodgkin's lymphoma.

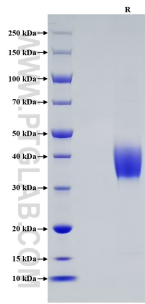
References

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2. Iurisci I, et al. (2000) Clin Cancer Res. 6(4):1389-93.
3. Takenaka Y, et al. (2002) Glycoconj J. 19(7-9):543-9.
4. Dumic J, et al. (2006) Biochim Biophys Acta. 1760(4):616-35.

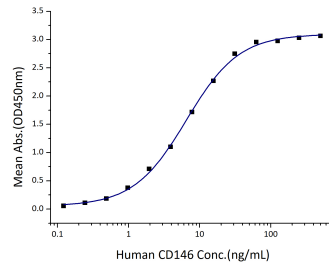
Synonyms

35 kDa lectin, CBP35, GAL3, GALBP, Galectin-3, GALIG, L-31, Lectin L-29, LGALS2, LGALS3, MAC2

Selected Validation Data



Purity of Recombinant Human Galectin-3 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.



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For technical support and original validation data for this product please contact

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