

For Research Use Only

Recombinant Human Galectin-9/LGALS9 protein (hFc Tag)



Catalog Number: Eg0084

Basic Information

ED50:
/

GeneID:
3965

Species:
Human

Accession:
O00182-2

Purity:
>90 %, SDS-PAGE

Technical Specifications

Purity:
>90 %, SDS-PAGE

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

Source:
HEK293-derived Human Galectin-9 protein Ala2-Thr323 (Accession# O00182-2) with a human IgG1 Fc tag at the N-terminus.

Predicted Molecular Mass:
61.8 kDa

SDS-PAGE:
68-85 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

Not tested

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

The galectins, formerly known as S-type lectins, are a family of β -galactoside-binding proteins implicated in modulating cell-cell and cell-matrix interactions. Galectin-9 (LGALS9) is a tandem repeat-type member of the galectin family. It has three isoforms (named galectin-9L, galectin-9M, and galectin-9S): long type of 355 amino acids, medium type of 323 amino acids, and short type of 311 amino acids. Galectin-9 is ubiquitously expressed in a variety of tissues, including lymph nodes and spleen, and overexpressed in Hodgkin disease tissue. It is involved in chemoattraction, apoptosis, and the regulation of cell differentiation and has anti-allergic effects. It has been reported that galectin-9 is a ligand for Tim-3, through which galectin-9 can induce T-helper type 1 lymphocyte (Th1) death.

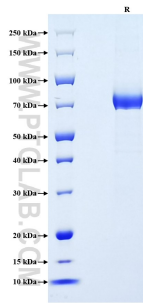
References

1. Barondes SH, et al.(1994). Cell. 25;76(4):597-8.
2. O Türeci, et al. (1997). J Biol Chem. 272(10):6416-22.
3. Zhang F, et al.(2009). Mol Biol Rep. 36(5):823-30.
4. Zhu C, et al.(2005). Nat Immunol. 6(12):1245-52.

Synonyms

Galectin 9, LGALS9, Ecalectin, Gal 9, Gal-9

Selected Validation Data



Purity of Recombinant Human Galectin-9 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

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

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