

For Research Use Only

Recombinant Mouse Vitamin D binding protein (rFc Tag)



Catalog Number: Eg7266

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Mouse Vitamin D binding protein Leu17-Ser476 (Accession# P21614) with a rabbit IgG Fc tag at the N-terminus.

GeneID:
14473

Accession:
P21614

Predicted Molecular Mass:
77.9 kDa

SDS-PAGE:
70-87 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in 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

Vitamin D binding protein (DBP), also known as group-specific component (Gc-globulin), is a glycosylated alpha-globulin produced primarily by the liver. It is a multifunctional, highly expressed, polymorphic serum protein. And it is involved in vitamin D transport and storage, scavenges of extracellular G-actin, and enhances of the chemotactic activity of C5 alpha for neutrophils in inflammation and macrophage activation. The presence of genetic variants in the Vitamin D BP gene are related to certain diseases, mostly concerning cancers (breast, prostate, pancreatic, lung, colorectal, basal cell carcinoma cancer and cutaneous melanoma) or other related diseases (thyroid autoimmunity disorders, obesity, diabetes mellitus, bone metabolism, rheumatoid arthritis, ankylosing spondylitis, asthma, chronic obstructive pulmonary disease, tuberculosis and coronary artery diseases).

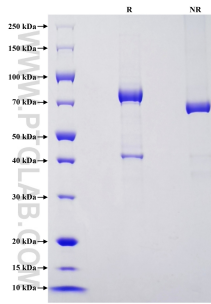
References

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- 2.Bhan, Ishir. International journal of endocrinology vol. 2014 (2014): 561214.
- 3.Nagasawa, Hideko et al. Anticancer research vol. 25,6A (2005): 3689-95.
- 4.Rozmus, Dominika et al. International journal of molecular sciences vol. 21,21 7822. 22 Oct. 2020, doi:10.3390/ijm

Synonyms

DBP, Gc, Gc-globulin, Group-specific component, VDB

Selected Validation Data



Purity of Recombinant Mouse Vitamin D binding protein was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

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

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