

Recombinant Human Vitamin D-Binding Protein/GC protein (His tag)

Catalog No. PKSH033215

Note: Centrifuge before opening to ensure complete recovery of vial contents.

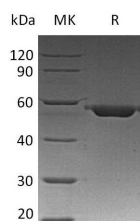
Description

Synonyms	Vitamin D-Binding Protein, DBP, VDB, Gc-Globulin, Group-Specific Component, GC
Species	Human
Expression Host	HEK293 Cells
Sequence	Met1-Leu474
Accession	P02774
Calculated Molecular Weight	52.3 kDa
Observed molecular weight	57 kDa
Tag	C-His
Bioactivity	Testing in progress

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Vitamin D-Binding Protein (DBP) is a member of the ALB/AFP/VDB family. DBP is a secreted protein and contains

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three albumin domains. The primary structure contains 28 cysteine residues forming multiple disulfide bonds. DBP acts as a multifunctional protein found in plasma, ascitic fluid, cerebrospinal fluid, and urine and on the surface of many cell types. DBP binds to vitamin D and its plasma metabolites and transports them to target tissues. DBP associates with membrane-bound immunoglobulin on the surface of B-lymphocytes and with IgG Fc receptor on the membranes of T-lymphocytes.