



Recombinant Protein Technical Manual  
Recombinant Human Vitamin D-Binding Protein/GC  
Protein (His Tag)  
RPES2584

#### Product Data:

**Product SKU:** RPES2584

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** P02774

#### Protein Information:

**Molecular Mass:** 52.3 kDa

**AP Molecular Mass:** 53 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** 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 a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.2.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Vitamin D-Binding Protein; DBP; VDB; Gc-Globulin; Group-Specific Component; GC

## Immunogen Information:

**Sequence:** Leu17-Leu474

## Background:

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