

## 32-7720: Recombinant Human Vitamin D-Binding Protein/VDB/Gc-globulin (C-6His)

**Gene :** GC  
**Gene ID :** 2638  
**Uniprot ID :** P02774

### Description

Source: Human Cells.  
MW :52.3kD.

Recombinant Human Vitamin D-Binding Protein is produced by our Mammalian expression system and the target gene encoding Leu17-Leu474 is expressed with a 6His tag at the C-terminus. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.2.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** LERGRDYEKNKVCKEFSHLGKEDFTLSLSLVLYSRKFPSGTFEQVSQLVKEVVSLTEACCAEGADPDCYDTRTSA  
LSAKSCESNSPPFPVHPGTAECCTKEGLERKLCMAALKHQPEFPTYVEPTNDEICEAFRKDPKEYANQFMWEYS  
TNYGQAPLSLLVSYTKSYLSMVGSCCTSASPTVCFLKERLQLKHLSTLTLNLRVCSQYAAAYGEKKSRLSNLIKLA  
QKVPTADLEDVPLAEDITNILSKCCESASEDCMAKELPEHTVKLCDNLSTKNSKFEDCCQEKTAMDVVFCTYF  
MPAAQLPELPDVELPTNKDVCDPGNTKVMKDYFELSRRTHLPEVFLSKVLEPTLKSLECCDVEDSTTCFNAK  
GPLLKKELSSFIDKGQELCADYSENTFTEYKKLAERLAKLPDATPTELAKLVNKRSDFASNCCSINSPLYCDS  
EIDAELKNILVDHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.