Datasheet for ABIN4370809

Vitamin D-Binding Protein Protein (GC) (AA 17-474) (His tag)

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Overview

Quantity:	50 µg
Target:	Vitamin D-Binding Protein (GC)
Protein Characteristics:	AA 17-474
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Vitamin D-Binding Protein protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Vitamin D-Binding Protein/VDB/Gc-globulin (C-6His)
Sequence:	LERGRDYEKN KVCKEFSHLG KEDFTSLSLV LYSRKFPSGT FEQVSQLVKE VVSLTEACCA EGADPDCYDT RTSALSAKSC ESNSPFPVHP GTAECCTKEG LERKLCMAAL KHQPQEFPTY VEPTNDEICE AFRKDPKEYA NQFMWEYSTN YGQAPLSLLV SYTKSYLSMV GSCCTSASPT VCFLKERLQL KHLSLLTTLS NRVCSQYAAY GEKKSRLSNL IKLAQKVPTA DLEDVLPLAE DITNILSKCC ESASEDCMAK ELPEHTVKLC DNLSTKNSKF EDCCQEKTAM DVFVCTYFMP AAQLPELPDV ELPTNKDVCD PGNTKVMDKY TFELSRRTHL PEVFLSKVLE PTLKSLGECC DVEDSTTCFN AKGPLLKKEL SSFIDKGQEL CADYSENTFT EYKKKLAERL KAKLPDATPT ELAKLVNKRS DFASNCCSIN SPPLYCDSEI DAELKNILVD HHHHHH
Characteristics:	Recombinant Human Vitamin D-Binding Protein/GC is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Leu17-Leu474) of Human GC fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Product Details

Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	Vitamin D-Binding Protein (GC)
Alternative Name:	Vitamin D-Binding Protein (GC Products)
Sub Type:	Fusionprotein
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. Alternative Names: Vitamin D-Binding Protein, DBP, VDB, Gc-Globulin, Group-Specific Component, GC
Molecular Weight:	52.3 kDa
UniProt:	P02774
Pathways:	Metabolism of Steroid Hormones and Vitamin D, Monocarboxylic Acid Catabolic Process

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB,150 mM NaCl, pH 7.2.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C

Handling

Storage Comment:	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.
Expiry Date:	3 months