

Vitamin D-binding protein/GC Protein, Mouse (His)

Cat. No.:	HY-P72292
Synonyms:	Vitamin D-binding protein; DBP; VDB; Gc-globulin; Group-specific component
Species:	Mouse
Source:	E. coli
Accession:	P21614 (L17-S476)
Gene ID:	14473
Molecular Weight:	Approximately 57.4kDa

PROPERTIES

AA Sequence	<pre> LERGRDYEKD KVCNELAMLG KEDFRSLSLI LYSRKFS SST FEQVNQLVKE VVSLTEECCA EGADPTCYDT RTSELSVKSC ESDAPFPVHP GTPECCTKEG LERKLCMAAL SHQPQEFPTY VEPTNDEICE AFRRDPKGF A DQFLYEYSSN YGQAPLPLL V AYTKNYLSMV GSCCTS ANPT VCFVKERLQM KHL SLLTMS NRVCSQYAA Y GKEKSRLSHL IKLAQKVPTA NLE NVLPLAE DFTEILSRCC ESTSEDCMAS ELPEHTIKIC QNLSKKN SKF ECCQENTPM NIFMCTYFMP AAEP LQLPAI KLPTGKDL CG QSTTQAMDQY TFE LSRRTQV PEVFLSKVLE PTLKTLRECC DTQDSVACFS TQSPLLKRQL TSFIEKGQEM CADYSENTFT EYKKKLAERL RTKTPNTSPA ELKDMVEKHS DFASKCCSIN SPPLYC SSI DAEMIDLQS </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Vitamin D-binding protein (GC Protein) plays a pivotal role in vitamin D transport and storage, contributing to the
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scavenging of extracellular G-actin. Additionally, it enhances the chemotactic activity of C5 alpha for neutrophils during inflammation and participates in macrophage activation. Notably, GC Protein associates with membrane-bound immunoglobulin on the surface of B-lymphocytes and interacts with IgG Fc receptor on the membranes of T-lymphocytes, suggesting its involvement in immune-related processes. Furthermore, its interaction with LRP2 is crucial for the renal uptake of GC in complex with 25-hydroxyvitamin D3, highlighting its significance in vitamin D metabolism.

Caution: Product has not been fully validated for medical applications. For research use only.

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