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GC
Native Human Vitamin D-Binding Protein / GC-Globulin

Catalog No.	CRC119A CRC119B	**Quantity:**	1 mg 10 mg

Alternate Names: Vitamin D-binding protein, DBP, GC-globulin, Gc protein-derived macrophage activating factor, Gc-MAF

Description: Vitamin D binding protein (GC-globulin) is a multifunctional protein that is well-conserved in the evolution of vertebrates and is genetically the oldest member of the albuminoid family (including albumin, α-fetoprotein and afamin, all involved in transport of fatty acids or hormones). GC-globulin is an alpha 2 glycoprotein, composed of a single polypeptide chain and present in plasma at levels of 20-55 mg/100 ml. It functions in the binding and transport of vitamin D and may also play an important role in actin homeostasis since it has been shown to bind monomeric actin with high affinity. GC-globulin also binds membranes of both circulating B and T lymphocytes. Concentrations are reduced in patients with severe liver diseases. GC-globulin may also play an important role in the mechanism of the osteomalacia that occurs with Itai-Itai disease.

UniProt ID: P02774

Molecular Weight: 56 kDa

Source: Human plasma

Formulation: Lyophilized from 20 mM NaH_2PO_4,0.15 M NaCl pH 7.4

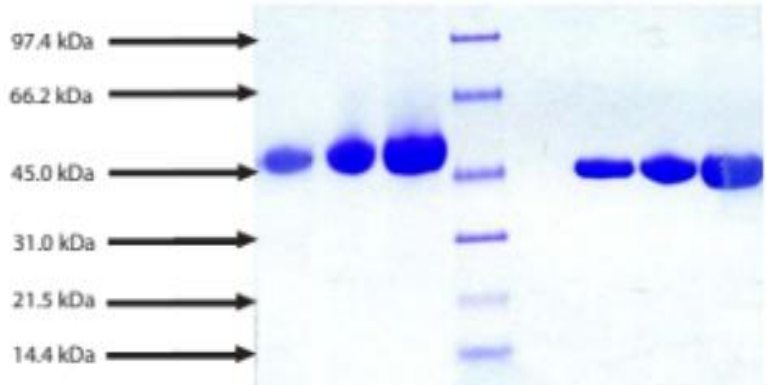
Purity: ≥ 95% as determined by SDS-PAGE.

Extinction Coefficient: $E^{0.1\%}_{280nm}$ = 0.63

Storage & Stability: Store at -80°C for up to 1 year or in working aliquots at -80°C.
Avoid repeated freeze-thaw cycles.

Infectious Disease Statement: Prepared from whole blood shown to be non-reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.

SDS-PAGE: 4-12% Bis-Tris NuPAGE



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Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com