

## Recombinant Human GC Protein

Catalog #	Source	Reactivity	Applications
CRP1603	Human cells	Human	E, WB, SDS-PAGE, MS

**Description** Recombinant Human GC 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.

**Form** Lyophilized from a 0.2  $\mu$ M filtered solution of 20mM PB, 150mM NaCl, pH 7.2.

**Gene Symbol** GC

**Alternative Names** Vitamin D-binding protein; DBP; VDB; Gc-globulin; Group-specific component

**Entrez Gene** 2638 (Human)

**SwissProt** P02774 (Human)

**Purity** Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

**Chemical Structure** LERGRDYEKN KVCKEFSHLG KEDFTSLSLV LYSRKFPSGT FEQVSQLVKE VVSLTEACCA EGADPDCYDT RTSALSAKSC ESNPFPVHP GTAECCTKEG LERKLCMAAL KHQPQEFPTY VEPTNDEICE AFRKDPKEYA NQFMWEYSTN YGQAPLSLLV SYTKSYLSMV GSCCTSASPT VCFLKERLQL KHLSLLTTLN NRVCQYAAY GEKKSRLSNL IKLAQKVPTA DLEDVLPLAE DITNILSKCC ESASEDCMAK ELPEHTVKLC DNLSTKNSKF EDCCQEKTAM DVFVCTYFMP AAQLPELPDV ELPTNKDVCD PGNTKVMDDY TFELSRRTHL PEVFLSKVLE PTLKSLGECC DVEDSTTCFN AKGPLLKKEL SSFIDKGQEL CADYSENTFT EYKKLAERL KAKLPDATPT ELAKLVNKRK DFASNCCSIN SPPLYCDSEI DAELKNILVD HHHHHH

**Quality Control** Endotoxin: Less than 0.1 ng/ $\mu$ g (1 IEU/ $\mu$ g) as determined by LAL test.

**Directions for Use** Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100  $\mu$ g/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize

**Application key:** E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, CHIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

**Species reactivity key:** H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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# Product Data Sheet

freeze-thaw cycles.

## Storage/Stability

Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 2-8°C for 2-7 days.

Aliquots of reconstituted samples are stable at -20°C for 3 months.

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