Native Human GC protein

Cat. No. GC-524H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human GC Globulin(Vitamin D Binding Protein) was purified from Human Plasma.
Species	Human
Source	Human Plasma
Description	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 homeostatis since it has been shown to bind monomeric actin with high affinity. GC-globulin also binds membranes of both circulating B and T lymphocytes. Clinically, 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.
Form	Lyophilized from 20 mM Na phosphate, pH 7.4, with 150 mM NaCl.
Molecular Mass	56000
Purity	>=95% by SDS-PAGE

GENE INFORMATION

Gene Name	GC group-specific component (vitamin D binding protein) [Homo sapiens]

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Official Symbol	GC
Synonyms	GC; group-specific component (vitamin D binding protein); vitamin D-binding protein; DBP; hDBP; VDBP; VDB; gc-globulin; vitamin D-binding alpha-globulin; GRD3; VDBG; DBP/GC;
Gene ID	2638
mRNA Refseq	NM_000583
Protein Refseq	NP_000574
MIM	139200
UniProt ID	P02774
Chromosome Location	4q12-q13
Pathway	Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Metabolism of steroid hormones and vitamins A and D, organism-specific biosystem; Vitamin D (calciferol) metabolism, organism-specific biosystem;
Function	actin binding; vitamin D binding; vitamin transporter activity;

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