

## Native Human GC protein

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

### SPECIFICATION

<b>Product Overview</b>	Native Human GC Globulin(Vitamin D Binding Protein) was purified from Human Plasma.
<b>Species</b>	Human
<b>Source</b>	Human Plasma
<b>Description</b>	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.
<b>Form</b>	Lyophilized from 20 mM Na phosphate, pH 7.4, with 150 mM NaCl.
<b>Molecular Mass</b>	56000
<b>Purity</b>	>=95% by SDS-PAGE

### GENE INFORMATION

<b>Gene Name</b>	GC group-specific component (vitamin D binding protein) [ Homo sapiens ]
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<b>Official Symbol</b>	GC
<b>Synonyms</b>	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;
<b>Gene ID</b>	2638
<b>mRNA Refseq</b>	NM_000583
<b>Protein Refseq</b>	NP_000574
<b>MIM</b>	139200
<b>UniProt ID</b>	P02774
<b>Chromosome Location</b>	4q12-q13
<b>Pathway</b>	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;
<b>Function</b>	actin binding; vitamin D binding; vitamin transporter activity;

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