

Native Human GC-Globulin

Cat. No. GC-198H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

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 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. 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
Molecular Mass	56, 000
Purity	>= 95% by SDS-PAGE
Usage	For research use or for use in further manufacturing.
Quality Control Test	Shown to be non reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.

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Stability	>1 year
Storage	<=>
Storage Buffer	20 mM NaH ₂ PO ₄ , 0.15 M NaCl pH 7.4
GENE INFORMATION	
Gene Name	GC group-specific component (vitamin D binding protein) [Homo sapiens]
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
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;

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Function

actin binding; vitamin D binding; vitamin transporter activity;

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