





Recombinant Human Vitamin D-binding protein (GC), partial

Product Code CSB-EP009306HU Relevance Growth factor active in angiogenesis, lymphangiogenesis and endothelial cell growth, stimulating their proliferation and migration and also has effects on the permeability of blood vessels. May function in the formation of the venous and lymphatic vascular systs during bryogenesis, and also in the maintenance of differentiated lymphatic endothelium in adults. Binds and activates VEGFR-2 (KDR/FLK1) and VEGFR-3 (FLT4) receptors. Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. Uniprot No. P02774 Storage Buffer Tris-based buffer,50% glycerol Product Type Recombinant Proteins Immunogen Species Homo sapiens (Human) Purity Greater than 90% as determined by SDS-PAGE. Sequence RGRDYEKNKVCKEFSHLGKEDFTSLSLVLYSRKFPSGTFEQVSQLVKEVVSLT EACCAEGADPDCVDTRTSALSAKSCESNSPPPVHPGTAECCTKEGLERKLCM AALKHOPQEFPTYVEPTNDEICEAFRKDRKEYANQEMWEYSTNYGQAPLSLL VSYTKSYLSMVGSCCTSASPTVCFLKERLQLKHLSLLTTLSNRVCSQYAAYGE KKSRLSNLIKLAGKVPTADLEDVLPLAEDLEDTINLISKCCESASEDCMAKELPEHTIV KLCDNLSTKNSKFEDCCQEKTAMDVFVCTYFMPAAQLPELPDVELPTNKDVC DPGNTKVMDKYTFELSRRTHLPEVFLSKVLEPTLKSLGECCDVEDSTTCFNAK GPLLKKKELSSFIDKGGGLCADYSENTFTYFTYKKKLAERLKAKLPDATPTELAKLV NKHSDFASNCCSINSPPLYCDSEIDAELKNIL Lead Time 3-7 business days Research Area Cancer		
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Mol. Weight 55.0kDa	Tag Info	N-terminal 6xHis-tagged
	Mol. Weight	55.0kDa







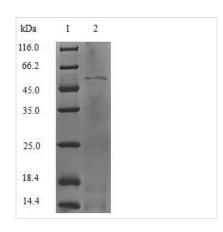




Protein Description

Partial

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The gene responsible for the Human Vitamin D-binding protein (19-474aa) is incorporated into a plasmid vector, forming recombinant plasmid. The resulting recombinant plasmid is introduced into e.coli cells, from which cells survive in the presence of a specific antibiotic are selected. The selected e.coli cells containing the recombinant plasmid are cultured under conditions that facilitate the expression of the gene of interest. A N-terminal 6xHis tag is linked to the protein. After expression, affinity purification is used to isolate and purify the recombinant Human Vitamin D-binding protein from the cell lysate. Denaturing SDS-PAGE is employed to resolve the resulting recombinant Human Vitamin Dbinding protein, revealing a purity greater than 90%.