

Recombinant Human VKORC1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. VKORC1-4806H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	VKORC1 MS Standard C13 and N15-labeled recombinant protein (NP_996560) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes the catalytic subunit of the vitamin K epoxide reductase complex, which is responsible for the reduction of inactive vitamin K 2,3-epoxide to active vitamin K in the endoplasmic reticulum membrane. Vitamin K is a required co-factor for carboxylation of glutamic acid residues by vitamin K-dependent gamma-carboxylase in blood-clotting enzymes. Allelic variation in this gene is associated with vitamin k-dependent clotting factors combined deficiency of 2, and increased resistance or sensitivity to warfarin, an inhibitor of vitamin K epoxide reductase. Pseudogenes of this gene are located on chromosomes 1 and X. Alternative splicing results in multiple transcript variants.
Molecular Mass	9.7 kDa
AA Sequence	MGSTWGSPGWVRLALCLTGLVLSLYALHVKAARARDRDYRALCDVGTAISCSRVFS SRLPADTLGLCPDAAELPGVSRWFCLPGLDPVLRALTRTRPLEQKLISEEDLAANDIL DYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

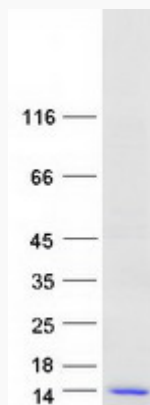
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Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	VKORC1 vitamin K epoxide reductase complex subunit 1 [Homo sapiens (human)]
Official Symbol	VKORC1
Synonyms	VKORC1; vitamin K epoxide reductase complex, subunit 1; vitamin K dependent clotting factors deficiency 2, VKCFD2; vitamin K epoxide reductase complex subunit 1; phyloquinone epoxide reductase; vitamin K1 2,3-epoxide reductase subunit 1; vitamin K dependent clotting factors deficiency 2; vitamin K1 epoxide reductase (warfarin-sensitive); VKOR; MST134; MST576; VKCFD2; EDTP308; IMAGE3455200; MGC2694; FLJ00289;
Gene ID	79001
mRNA Refseq	NM_206824
Protein Refseq	NP_996560
MIM	608547
UniProt ID	Q9BQB6

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SDS-PAGE

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