Recombinant Human VKORC1 Protein, His tagged

Cat. No. VKORC1-001H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human VKORC1 Protein with His tag was expressed in Baculovirus-Insect Cells.
Species	Human
Source	Baculovirus-Insect Cells
ProteinLength	30-100 aa
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.
Form	Sterile PBS, pH7.4, 0.1% SKL
Molecular Mass	9 kDa
AASequence	MHHHHHHHHHHKAARARDRDYRALCDVGTAISCSRVFSSRWGRGFGLVEHVLGQDSILNQSNSIFGCIFYTLQLLLGCLRTR

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Endotoxin	< 1 EU/μg by LAL
Purity	> 70% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	1 mg/mL by BCA

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; phylloquinone 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_024006
Protein Refseq	NP_076869
MIM	608547
UniProt ID	Q9BQB6

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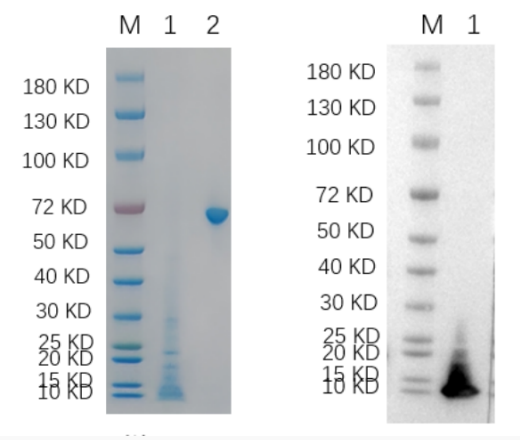
SDS-PAGE and WB	 Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal Antibody) analysis profiles of purified VKORC1. 1. VKORC1 2. BSA

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