

Product datasheet for PH314831

VKORC1 (NM_206824) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	VKORC1 MS Standard C13 and N15-labeled recombinant protein (NP_996560)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC214831
Predicted MW:	9.7 kDa
Protein Sequence:	>RC214831 representing NM_206824 Red =Cloning site Green =Tags(s) MGSTWGSFGWVRLALCLTGLVLSLYALHVKAARARDRDYRALCDVGTAIISCSRVFSSRLPADTLGLCPDA AELPGVSRWFCLPGLDPVLRAL TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_996560</u>
RefSeq Size:	907
RefSeq ORF:	276
Synonyms:	EDTP308; MST134; MST576; VKCFD2; VKOR
Locus ID:	79001
UniProt ID:	<u>Q9BQB6</u> , <u>A0A0S2Z5X7</u>
Cytogenetics:	16p11.2



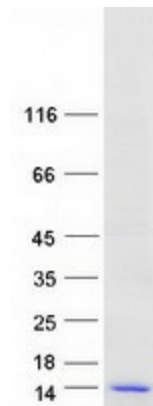
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Summary:

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. [provided by RefSeq, Aug 2015]

Protein Families:

Transmembrane

Product images:

Coomassie blue staining of purified VKORC1 protein (Cat# [TP314831]). The protein was produced from HEK293T cells transfected with VKORC1 cDNA clone (Cat# [RC214831]) using MegaTran 2.0 (Cat# [TT210002]).