

Recombinant Human PANK1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PANK1-3402H Lot. No. (See product label)

SPECIFICATION

Product Overview

PANK1 MS Standard C13 and N15-labeled recombinant protein (NP_683878) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

This gene encodes a member of the pantothenate kinase family. Pantothenate kinases are key regulatory enzymes in the biosynthesis of coenzyme A (CoA). The encoded protein catalyzes the first and rate-limiting enzymatic reaction in CoA biosynthesis and is regulated by CoA through feedback inhibition. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. This gene and an intronic miRNA on the same strand are co-regulated by the tumor suppressor p53 (see PMID 20833636).

Molecular Mass


64.2 kDa

AA Sequence

MLKLVGGGGGGQDWACSVAGTSLGGEEAAFEVARPGDQKGAGGGSPGWGCAGIP
 DSAPGAGVLQAGAVGPARGGQGAEEVGESAGGGEERRVRHPQAPALRLLNRKPQ
 GGSGEIKTPENDLQRGRLSRGPRTAPPAPGMGDRSGQQERSVPHSPGAPVGTSA
 AAVNGLLHNGFHPPPVPVQPPHVCSRGPVGGSDAAPQRLPLLPELQPQLLPQHDS
 PAKKCLRRLRRMDSGRKNRPPFPWFGMDIGGTLVKLVYFEPKDITAEQQEEVENLKSI
 RKYLTSNTAYGKTGIRDVHLELKNLTMCGRKGNLHFIRFPSCAMHRFIQMGSEKNFS

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SLHTTLCATGGGAFKFEEDFRMIADLQLHKLDELDCLIQGLLYVDSVGFNGKPECYY
 FENPTNPELCQKKPYCLDNPYPMLLVNMGSGVSILAVYSKDNYKRVTGTSLGGGT
 LGLCCLLTGCETFEEALEMAAKGDSTNVDKLVKDIYGGDYERFGLQGS AVASSFGN
 MMSKEKRDSISKEDLARATLVITITNIGSIARMCALNENIDRVVFGNFLRINMVMK
 LLAYAMDFWSKGQLKALFLEHEGYFGAVGALLELFKMTDDKTRTRPLEQKLISEEDL
 AANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
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	PANK1 pantothenate kinase 1 [Homo sapiens (human)]
Official Symbol	PANK1
Synonyms	PANK1; pantothenate kinase 1; PANK, pantothenate kinase; MGC24596; PANK1a; PANK1b; pantothenic acid kinase 1; PANK;
Gene ID	53354
mRNA Refseq	NM_148977

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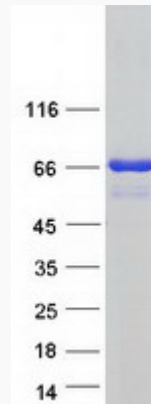
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Protein Refseq NP_683878

MIM 606160

UniProt ID Q8TE04

SDS-PAGE



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