

Product datasheet for PH321538

PANK1 (NM_148977) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PANK1 MS Standard C13 and N15-labeled recombinant protein (NP_683878)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221538
Predicted MW:	64.2 kDa
Protein Sequence:	>RC221538 representing NM_148977 Red=Cloning site Green=Tags(s)

MLKLVGGGGQDWACSVAGTSLGGEEAAFEVARPGDQGKAGGGSPGWGCAGIPDSAPGAGVLQAGAVGPA
RGGQGAEEVGESAGGGEERRVRHPQAPALRLLNRKPQGGSGEIKTPENDLQRGRLSRGPRTAPPAPGMGD
RSGQQERSVPHSPGAPVGTSAAAVNGLLHNGFHPPPVPQPPHVCSRGPVGGSDAAPQLPLPELQPQPLL
PQHDSPAKKCRLRRRMDSGRKNRPPFPWFMDIGGTLVKLVYFEPKDITAEQQEEVENLKSIRKYLTSN
TAYGKTGIRDVHLELKNLTMCGRKGNLHFIKFPSCAMHRFIQMGSEKNFSSLHTTLCATGGGAFKFEEDF
RMIADLQLHKLDELDCLIQGLLYVDSVGFNGKPECYFENPTNPELCQKKPYCLDNPYPMLLVNMGSGVS
ILAVYSKDNYKRVGTSLGGGTFLGLCCLLTGCETFEEALEMAAKGDSTNVDKLVKDIYGGDYERFGLQG
SAVASSFGNMMSKEKRDSISKEDLARATLVITNNIGSIARMCALNENIDRVVFGNFLRINMVSMKLLA
YAMDFWSKGLKALFLEHEGYFGAVGALLELFKMTDDK

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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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:	NP_683878
RefSeq Size:	3367
RefSeq ORF:	1794



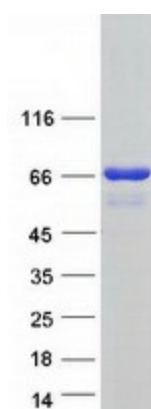
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Synonyms: PANK
Locus ID: 53354
UniProt ID: [Q8TE04](#)
Cytogenetics: 10q23.31

Summary: 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). [provided by RefSeq, Apr 2011]

Protein Families: Druggable Genome
Protein Pathways: Metabolic pathways, Pantothenate and CoA biosynthesis

Product images:



Coomassie blue staining of purified PANK1 protein (Cat# [TP321538]). The protein was produced from HEK293T cells transfected with PANK1 cDNA clone (Cat# [RC221538]) using MegaTran 2.0 (Cat# [TT210002]).