

Recombinant Full Length Human PANK2 Protein, C-Flag-tagged

Cat. No. PANK2-1526HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PANK2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a protein belonging to the pantothenate kinase family and is the only member of that family to be expressed in mitochondria. Pantothenate kinase is a key regulatory enzyme in the biosynthesis of coenzyme A (CoA) in bacteria and mammalian cells. It catalyzes the first committed step in the universal biosynthetic pathway leading to CoA and is itself subject to regulation through feedback inhibition by acyl CoA species. Mutations in this gene are associated with HARP syndrome and pantothenate kinase-associated neurodegeneration (PKAN), formerly Hallervorden-Spatz syndrome. Alternative splicing, involving the use of alternate first exons, results in multiple transcripts encoding different isoforms.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	59.1 kDa
AA Sequence	MRRLGPFHPRVHWAAPPSLSSGLHRLFLRGTRIPSSSTTLSPPRHDSLSDGGTVN PPRVREPTGREAFG PSPASSDWLPARWRNGRGGRPRARLCSGWTAEEARRNP TLGGLLGRQRLLLRMGGGRLGAPMERHGRAS ATSVSSAGEQAAGDPEGRRQEPL

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RRRASSASVPAVGASAEGTRRDLGSSGPTSVSRQRVESLRKKRPL FPWFGLDI
GGTLVKLVYFEPKDITAEVEEVEESLKSIRKYLTSTNVAYGSTGIRDVHLELKDLTLCG
RKG NLHFIRFPTHDMPAFIQMGRDKNFSSLHTVFCATGGGAYKFEQDFLTIGDLQL
CKLDELDCLIKILYID SVGFNGRSQCYYFENPADSEKQKLPFDLKNPYPLLLVNIG
SGVSILAVYSKDNYSKRVGTSLGGGTFFG LCCLLTGCTTFEEALEMASRGDSTKVD
KLVRDIYGGDYERFGLPGWAVASSFGNMMMSKEKREAVSKEDLA RATLITITNNIGSI
ARMCALNENINQVVFVGNFLRINTIAMRLLAYALDYWSKGQLKALFSEHEGYFGAV
GALLELLKIPSGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Metabolic pathways, Pantothenate and CoA biosynthesis
Full Length	Full L.

GENE INFORMATION

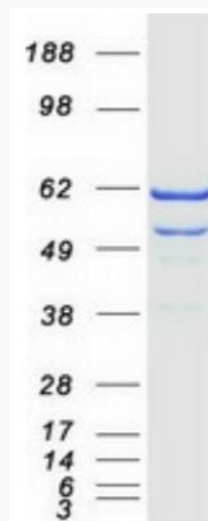
Gene Name PANK2 pantothenate kinase 2 [Homo sapiens (human)]

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Official Symbol	PANK2
Synonyms	HSS; HARP; PKAN; NBIA1; C20orf48
Gene ID	80025
mRNA Refseq	NM_153638.4
Protein Refseq	NP_705902.2
MIM	606157
UniProt ID	Q9BZ23



Coomassie blue staining of purified PANK2 protein.