



# Recombinant Human Pantothenate kinase 2, mitochondrial (PANK2)

<b>Product Code</b>	CSB-MP874850HU
<b>Abbreviation</b>	PANK2
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q9BZ23
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	<p> SLSL DGGTVNPPRV REPTGREAFG PSPASSDWLP ARWRNGRGGR  PRARLCSGWT AEEEARRNPT LGLLGRQRL LLRMGGGRLG  APMERHGRAS ATSVSSAGEQ AAGDPEGRRQ EPLRRRASSA  SVPVAVGASAE GTRRDLGSY SGPTSVSRQR VESLRKKRPL FPWFGLDIGG  TLVKLVYFEP KDITAE EEEEE EVESLKSIRK YLTSNVAYGS TGIRDVHLEL  KDLTLCGRKG NLHFIRFPTH DMPAFIQMGR DKNFSSLHTV FCATGGGAYK  FEQDFLTIGD LQLCKLDELD CLIKGILYID SVGFNGRSQC YYFENPADSE  KCQKLPFDLK NPYP LLLVNI GSGVSILAVY SKDNYKRVTG TSLGGGTFFG  LCCLLTGCTT FEEALEMASR GDSTKVDKLV RDIYGGDYER FGLPGWAVAS  SFGNMMSKEK REAVSKEDLA RATLITITNN IGSARMCAL NENINQVVFV  GNFLRINTIA MRLLAYALDY WSKGQLKALF SEHEGYFGAV GALLELLKIP </p>
<b>Source</b>	Mammalian cell
<b>Target Names</b>	PANK2
<b>Protein Names</b>	Recommended name: Pantothenate kinase 2, mitochondrial Short name= hPanK2 EC= 2.7.1.33 Alternative name(s): Pantothenic acid kinase 2
<b>Expression Region</b>	47-570
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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