



Recombinant Human Pantothenate kinase 2, mitochondrial (PANK2)

Product Code	CSB-BP874850HU
Abbreviation	PANK2
Storage	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.
Uniprot No.	Q9BZ23
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	<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 LQLCKLDEL 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>
Source	Baculovirus
Target Names	PANK2
Protein Names	Recommended name: Pantothenate kinase 2, mitochondrial Short name= hPanK2 EC= 2.7.1.33 Alternative name(s): Pantothenic acid kinase 2
Expression Region	47-570
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.

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.

Shelf Life

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