

Recombinant Human PANK2 Protein, His-tagged

Cat. No. PANK2-2543H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PANK2 Protein (His283-Pro570) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	His283-Pro570
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 35.6 kDa Accurate Molecular Mass: 36 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	PANK2 PANK2 protein [Homo sapiens (human)]
Official Symbol	PANK2
Synonyms	PANK2; PANK2 protein; HSS; HARP; PKAN; NBIA1; C20orf48; FLJ11729; MGC15053;
Gene ID	80025
mRNA Refseq	NM_153640
Protein Refseq	NP_705904

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MIM	606157
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UniProt ID	Q9BZ23
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