

Datasheet for ABIN7559577
PANK1 Protein (AA 1-548) (His tag)



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Overview

Quantity:	1 mg
Target:	PANK1
Protein Characteristics:	AA 1-548
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PANK1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Pank1 Protein expressed in mammalian cells.
Sequence:	MRGRRAPRPG STEVPAAARD ADTLRARAAS PVRGAQLAED VGTPTGGGEE RRGHQLPTAA PRLRESKPQG GSEDRGTADR DLQRGCQSRS PRTAPPVPGM GDRGAQHERA ALQSPGAPEG AAAANVGLLH NGFHPSAASS RDPPAPRFQL PSELQPQLF AQHDSPAKKC RLRRRMDSGR KNRPPFPWFG MDIGGTLVKL VYFEPKDITA EEEQEEVENL KSIRKYLTSN TAYGKTGIRD VHLELKNLTM CGRKGNLHFI RFPTCAMHLF IQMGSEKNFS SLHTTLCATG GGAFKFEEDF RMIADLQLHK LDELDCLIQG LLYVDSVGFN GKPECYFEN PTNPELCQKK PYCLDNPYPM LLVNMMSGVS ILAVYSKDNY KRVTGTSLGG GTFLGLCCLL TGCETFEAL DMAAKGDSTN VDKLVKDIYG GDYERFGLQG SAVASSFGNM MSKEKRESIS KEDLARATLV TITNIGSIA RMCALNENID RVVVFGNFLR INMVSMKLLA YAMDFWSKGQ LKALFLEHEG YFGAVGALLE LFKMTDTQ Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Product Details

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: PANK1

Alternative Name: Pank1 ([PANK1 Products](#))

Background: Pantothenate kinase 1 (mPank) (mPank1) (EC 2.7.1.33) (Pantothenic acid kinase 1),FUNCTION: Catalyzes the phosphorylation of pantothenate to generate 4'-phosphopantothenate in the first and rate-determining step of coenzyme A (CoA) synthesis (PubMed:20559429, PubMed:22815849). Required for the hepatic CoA increase during the switch from glucose to fatty acid oxidation that occurs in the fasting state (PubMed:20559429). {ECO:0000269|PubMed:20559429, ECO:0000269|PubMed:22815849}., FUNCTION: [Isoform 1]: Catalyzes the phosphorylation of pantothenate to generate 4'-phosphopantothenate in the first and rate-determining step of coenzyme A (CoA) synthesis. {ECO:0000269|PubMed:12095677, ECO:0000269|PubMed:17379144}., FUNCTION: [Isoform 2]: Catalyzes the phosphorylation of pantothenate to generate 4'-phosphopantothenate in the first and rate-determining step of coenzyme A (CoA) synthesis. {ECO:0000269|PubMed:10625688,

Target Details

ECO:0000269|PubMed:12095677, ECO:0000269|PubMed:16040613,
ECO:0000269|PubMed:17379144}.

Molecular Weight: 60.1 kDa

UniProt: [Q8K4K6](#)

Pathways: [Ribonucleoside Biosynthetic Process](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months