

Recombinant Human TWNK Protein (32-684 aa), His-tagged

Cat. No. TWNK-1698H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TWNK Protein (32-684 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Epigenetics and Nuclear Signaling. Protein Description: Full Length of Mature Protein.
Species	Human
Source	Yeast
ProteinLength	32-684 aa
Description	Involved in mitochondrial DNA (mtDNA) metabolism. Could function as an adenine nucleotide-dependent DNA helicase. Function inferred to be critical for lifetime maintenance of mtDNA integrity. In vitro, forms in combination with POLG, a processive replication machinery, which can use double-stranded DNA (dsDNA) as tplate to synthesize single-stranded DNA (ssDNA) molecules. May be a key regulator of mtDNA copy number in mammals.
Form	Tris-based buffer,50% glycerol
Molecular Mass	75.5 kDa
AA Sequence	APGPPRRRRYRKETLQALDMPVLPVTATEIRQYLRGHGIPFQDGHSCLRALSPFAESS QLKGQTGVTTSFSLFIDKTTGHFLCMTSLAEGSWEDFQASVEGRGDGAREGFLLSK APEFEDSEEVRRRIWNRAIPLWELPDQEEVQLADTMFGLTKVTDLTKRFSVRYLRPA RSLVFPWFSPGGSGLRGLKLLLEAKCQGDGVSYEETTIPRPSAYHNLFGLPLISRDA

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EVVLTSSRELDLALNQSTGLPTLTLPRTTCLPPALLPYLEQFRRIVFWLGDDLRSW
EAAKLFARKLNPKRCFLVRPGDQQPRPLEALNGGFNLSRILRTALPAWHKSIVSFRQ
LREEVLGELSNVEQAAGLRWSRFPDLNRILKGHRKGELTVFTGPTGSGKTTFISEYA
LDLCSQGVNTLWGSFEISNVRLARVMLTQFAEGRLEDQLDKYDHWADRFEDLPLYF
MTFHGQQSIRTVIDTMQHAYVYDICHVIIDNLQFMMGHEQLSTDRIAAQDYIIGVFR
KFATDNNCHVTLVHPRKEDDDKELQTASIFGSAKASQEADNVLILQDRKLVTPGPK
RYLQVSKNRFDGDVGVPLEFNKNSLTFSIPPKNKARLKKIKDDTGPVAKKPSSGKK
GATTQNSEICSGQAPTPDQPDTSKRSK

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name TWNK *twinkle mtDNA helicase [Homo sapiens (human)]*

Official Symbol TWNK

Synonyms PEO; PEO1; SCA8; ATXN8; IOSCA; PEOA3; SANDO; TWINL; MTDP57; PRLTS5; C10orf2;

Gene ID 56652

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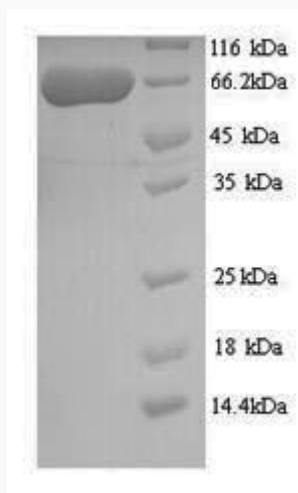
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mRNA Refseq [NM_001163812](#)

Protein Refseq [NP_001157284](#)

UniProt ID [Q96RR1](#)



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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