

Recombinant Human TWNK Protein Product Manual

1. Product Basic Information

Product No.: REP08570

Protein Name: Ataxin Twinkle Mtdna Helicase (TWNK)

Aliases: PEO; PEO1; SCA8; ATXN8; IOSCA; PEOA3; SANDO; TWINL; MTDPS7; PRLTS5; C10orf2; ataxin twinkle mtDNA helicase; twinkle protein, mitochondrial; T7-like mitochondrial DNA helicase; progressive external oph...

UniProt ID: Q96RR1

UniProt Link: <https://www.uniprot.org/uniprotkb/Q96RR1/entry>

Species Source: Homo sapiens (Human)

Expression System: Yeast

Protein Length: Full Length of Mature Protein (32-684aa)

Molecular Weight: 75.5kDa

Protein Tag: N-terminal 6xHis-tagged

2. Amino Acid Sequence (32-684aa)

APGPPRRRYRKETLQALDMPVLPVTATEIRQYLRGHGIPFQDGHSCLRALSPFAES
SQLKGGQTGVTTTSFSLFIDKTTGHFLCMTSLAEGSWEDFQASVEGRGDGAREGFLLS
KAPEFEDSEEVRRIWNRAIPLWELPDQEEVQLADTMFGLTKVTDDTLKRFSVRYLR
PARSLVFPWFSPGGSGLRGLKLLLEAKCQGDGVSYEETTIPRPSAYHNLFGPLISRR
DAEVLTSRELDLALNQSTGLPTLTLPRGTTCLPPALLPYLEQFRRIVFWLGDDL
SWEAAKLFARKLNPKRCFLVRPGDQQPRPLEALNGGFNLSRILRTALPAWHKSIVS
FRQLREEVLGELSNVEQAAGLRWSRFPDLNRILKGHRKGELTVFTGPTGSGKTTFI
SEYALDLCSSQGVNTLWGSFEISNVRLARVMLTQFAEGRLEDQLDKYDHWADRFD
LPLYFMTFHGQQSIRTVIDTMQHAVYVYDICHVIIDNLQFMMGHEQLSTDRIAQAQDYII
GVFRKFATDNNCHVTLVIHPRKEDDDKELQTASIFGSAKASQEADNVLILQDRKLV
GPGKRYLQVSKNRFDGDVGVFPLEFNKNSLTFSIPPKNKARLKKIKDDTGPVAKKPS
SGKKGATTQNSEICSGQAPTPDQPDTSKRSK

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom



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glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant Human TWNK full length of mature protein protein (32-684aa) expressed in Yeast. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. TWNK, also known as PEO or PEO1 or SCA8, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.