



Recombinant Human Twinkle mtDNA helicase (TWNK)

Product Code	CSB-YP842754HU
Relevance	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.
Abbreviation	Recombinant Human TWNK protein
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.	Q96RR1
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	APGPPRRRRYRKETLQALDMPVLPVTATEIRQYLRGHGIPFQDGHSCLRALSPF AESSQLKGQGTGVTTTSFSLFIDKTTGHFLCMTSLAEGSWEDFQASVEGRGDGA REGFLLSKAPEFEDSEEVRRINRAIPLWELPDQEEVQLADTMFGLTKVTDDT LKRFSVRYLRPARSLVFPWFSPGGSGLRGLKLEAKCQGDGVSYEETTIPRPS AYHNLFGPLISRRDAEVVLTSLRELDLALNQSTGLPTLTLPRGTTCLPPALLPY LEQFRRIVFWLGDDLRSWEAAKLFARKLNPKRCFLVRPGDQQPRPLEALNGG FNLSRILRTALPAWHKSIVSFRQLREEVLGELSNVEQAAGLRWSRFPDLNRILK GHRKGELTVFTGPTGSGKTTFISEYALDLCQQGVNTLWGSFEISNVRLARVML TQFAEGRLEDQLDKYDHWADRFEDLPLYFMTFHGQQSIRTVIDTMQHAYVYVY DICHVIIDNLQFMMGHEQLSTDRIAAQDYIIGVFRKFATDNNCHVTLVIHPRKED DDKELQTASIFGSAKASQEADNVLILQDRKLVTPGPKRYLQVSKNRFDDGVDGV FPLEFNKNSLTFSIPPKNKARLKKIKDDTGPVAKKPSSGKKGATTQNSEICSGQ APTPDQPDTSKRSK
Research Area	Epigenetics and Nuclear Signaling
Source	Yeast
Target Names	TWNK
Protein Names	Recommended name: Twinkle protein, mitochondrial EC= 3.6.4.12Alternative name(s): Progressive external ophthalmoplegia 1 protein T7 gp4-like protein with intramitochondrial nucleoid localization T7-like mitochondrial DNA helicase
Expression Region	32-684aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at



4°C for up to one week.

Tag Info

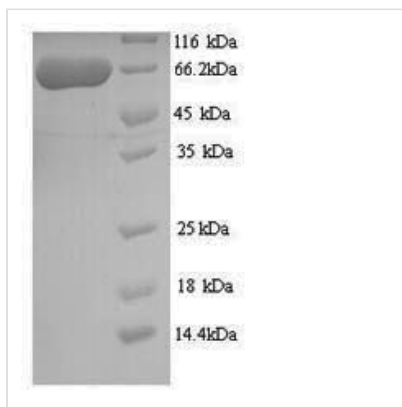
N-terminal 6xHis-tagged

Mol. Weight

75.5kDa

Protein Length

Full Length of Mature Protein

Image


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

Shelf Life

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