

Recombinant Mouse Twnk Protein, His-tagged

Cat. No. Twnk-513M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Twnk Protein (Val385-Lys636) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Val385-Lys636
Description	Enables DNA helicase activity. Involved in mitochondrial DNA replication. Acts upstream of or within DNA unwinding involved in DNA replication. Located in mitochondrion. Used to study Parkinson's disease. Human ortholog(s) of this gene implicated in Perrault syndrome; autosomal dominant progressive external ophthalmoplegia with mitochondrial DNA deletions 3; chronic progressive external ophthalmoplegia; and mitochondrial DNA depletion syndrome 7. Orthologous to human TWNK (twinkle mtDNA helicase).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 32.3 kDa Accurate Molecular Mass: 32 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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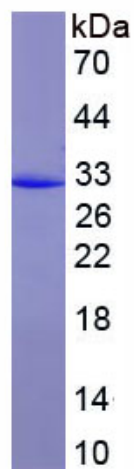
 45-1 Ramsey Road, Shirley, NY 11967, USA

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, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.
GENE INFORMATION	
Gene Name	Twink twinkle mtDNA helicase [<i>Mus musculus</i> (house mouse)]
Official Symbol	Twink
Synonyms	Twink; twinkle mtDNA helicase; PEO; Peo1; Twinl; D19Ertd626e; twinkle mtDNA helicase; T7 gp4-like protein with intramitochondrial nucleoid localization; progressive external ophthalmoplegia 1 protein homolog; putative T7-like mitochondrial DNA helicase twinky; twinkle protein, mitochondrial; EC 3.6.4.12
Gene ID	226153
mRNA Refseq	NM_153796
Protein Refseq	NP_722491
UniProt ID	Q8CIW5

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