

Recombinant Human POT1 Protein, His-tagged

Cat. No. POT1-2608H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human POT1 Protein (Met1-Ala177) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Ala177
Description	This gene is a member of the telombin family and encodes a nuclear protein involved in telomere maintenance. Specifically, this protein functions as a member of a multi-protein complex that binds to the TTAGGG repeats of telomeres, regulating telomere length and protecting chromosome ends from illegitimate recombination, catastrophic chromosome instability, and abnormal chromosome segregation. Increased transcriptional expression of this gene is associated with stomach carcinogenesis and its progression. Alternatively spliced transcript variants have been described.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 23.5 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 97%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
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, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	POT1 protection of telomeres 1 homolog (S. pombe) [Homo sapiens (human)]
Official Symbol	POT1
Synonyms	POT1; protection of telomeres 1 homolog (S. pombe); protection of telomeres protein 1; DKFZp586D211; hPot1; POT1-like telomere end-binding protein; HPOT1;
Gene ID	25913
mRNA Refseq	NM_001042594
Protein Refseq	NP_001036059
MIM	606478

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UniProt ID

Q9NUX5

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