

Recombinant Human POT1

Cat. No. POT1-27935TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 1-95 of Human POT1 with a proprietary tag; predicted mwt: 36.08 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	1-95 a.a.
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.
Molecular Weight	36.080kDa inclusive of tags
Tissue specificity	Ubiquitous.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MSLVPATNYIYTPLNQLKGGTIVNVYGVVKFFKPPYLSKGTDYCSVVTIVDQTNVKLT CLLFSGNYEALPIIYKNGDIVRFHRLKIQVYKKETQG
Sequence Similarities	Belongs to the telombin family.

GENE INFORMATION

Gene Name	POT1 protection of telomeres 1 homolog (S. pombe) [Homo sapiens]
Official Symbol	POT1
Synonyms	POT1; protection of telomeres 1 homolog (S. pombe); protection of telomeres protein 1; DKFZp586D211; hPot1;
Gene ID	25913
mRNA Refseq	NM_001042594
Protein Refseq	NP_001036059
MIM	606478
Uniprot ID	Q9NUX5
Chromosome Location	7q31.33

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Pathway	Chromosome Maintenance, organism-specific biosystem; Meiosis, organism-specific biosystem; Meiotic Synapsis, organism-specific biosystem; Packaging Of Telomere Ends, organism-specific biosystem; Regulation of Telomerase, organism-specific biosystem;
Function	DEAD/H-box RNA helicase binding; DNA binding; protein binding; single-stranded telomeric DNA binding; single-stranded telomeric DNA binding;

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