

Recombinant Full Length Human POT1 Protein, Isoform 1, GST-tagged

Cat. No. POT1-2787H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human POT1 Protein full-length ORF (BAB14110.1, 1 a.a. - 634 a.a.) is produced by Wheat Germ (in vitro) expression system. This protein is fused with GST-tag at N-terminal.
Species	Human
Source	Cell Free System
ProteinLength	1-634 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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	97.8 kDa
AA Sequence	MSLVDPATNYIYTPLNQLKGGTIVNVYGVVKFFKPPYLSKGTDYCSVVTIVDQTNVKLT CLLFSGNIEALPIIYKNGDIVRFHRLKIQVYKKETQGITSSGFASLTFEGLGAPIIPRT

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SSKYFNFTTEDHKMVEALRVWASTHMSPSWTLLKLCDVQPMQYFDLTCQLLGKAE
VDGASFLKVDGTRTPFPSPWRVLIQDLVLEGDLSHIHLQNLTLIDILVYDNHVVHVAR
SLKVGSFLRIYSLHTKLQSMNSENQTMLSLEFHLHGGTSYGRGIRVLPESNSDVDQL
KKDLESANLTANQHSDVICQSEPDDSFSSGVSLSYEVERCQQLSATILTDHQYLER
TPLCAILKQKAPQQYRIRAKLSYKPRRLFQSVKLHCPKCHLLQEVPHGEDLDIIFQD
GATKTPDVKLQNTSLYDSKIWTTKNQKGRKVAVHFAKNNGILPLSNECLLLIEGGTSL
EICKLSNKFNSVIPVRSGHEDLELLDLSAPFLIQGTIHHYGCKQCSSLRSIQNLNSLVD
KTSWIPSSVAEALGIVPLQYVFVMTFTLDDGTGVLEAYLMDSDKFFQIPASEVLMDD
DLQKSVDMMMDMFCPPGIKIDAYPWLECFIKSYNVTNGTDNQICYQIFDTTVAEDVI

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name

POT1 protection of telomeres 1 homolog (S. pombe) [Homo sapiens]

Official Symbol

POT1

Synonyms

POT1; DKFZp586D211; hPot1; POT1-like telomere end-binding protein; HPOT1;

Gene ID

25913

mRNA Refseq

NM_001042594

Protein Refseq

NP_001036059

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MIM	606478
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UniProt ID	Q9NUX5
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