

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

Cat. No. POT1-2788H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human POT1 Protein is produced by HEK293T expression system. This protein is fused with a Flag tag.
Species	Human
Source	HEK293
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	PBS buffer
Molecular Mass	71 kDa
AA Sequence	MSLVPATNYIYTPLNQLKGGTIVNVYGVVKFFKPPYLSKGTDYCSVVTIVDQTNVKLT CLLFSGNYEALPIIYKNGDIVRFHRLKIQVYKKETQGITSSGFASLTFEGTLGAPIIPRT SSKYFNFTTEDHKMVEALRVWASTHMSPSWTLLKLCDVQPMQYFDLTCQLLGKAE

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VDGASFLLKVWDGTRTPFPSWRVLIQDLVLEGDLSHIHLQNLTLIDILVYDNHVVHVAR
 SLKVGSFLRIYSLHTKLQSMNSENQTMLSLEFHLHGGTSYGRGIRVLPESNSDVDQL
 KKDLESANLTANQHSDVICQSEPDDSFSSGSVSLYEVEQCQLSATILTDHQYLER
 TPLCAILKQKAPQQYRIRAKLSYKPRRLFQSVKLHCPKCHLLQEVPHGEDLDIIFQD
 GATKTPVVKLQNTSLYDSKIWTTKNQKGRKVAVHFVKNNILPLSNECLLLIEGGTSL
 EICKLSNKFNSVIPVRSGHEDLELLDLSAPFLIQGTIHHYGCKQCSSLRSIQNLNSLVD
 KTSWIPSSVAEALGIVPLQYVFMFTLDDGTGVLEAYLMDSDKFFQIPASEVLMDD
 DLQKSVDMMDMFCPPGIKIDAYPWLECFIKSYNVTNGTDNQICYQIFDTTVAEDVIT
 RTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Notes Avoid repeated freeze-thaw cycles.

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at –80 centigrade.

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

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Protein Refseq	NP_001036059
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MIM	606478
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UniProt ID	Q9NUX5
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Purified recombinant protein POT1 was analyzed by SDS-PAGE gel and Coomossie Blue Staining.

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