

Recombinant Human POT1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. POT1-5057H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	POT1 MS Standard C13 and N15-labeled recombinant protein (NP_056265) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 Mass	71.3 kDa
AA Sequence	MSLVPATNYIYTPLNQLKGGTIVNVYGVVKFFKPPYLSKGTDYCSVVTIVDQTNVKLT CLLFSGNVEALPIIYKNGDIVRFHRLKIQVYKKETQGITSSGFASLTFEGTLGAPIIPRT SSKYFNFTTEDHKMVEALRVWASTHMSPSWTLLKLCDVQPMQYFDLTCQLLGKAE VDGASFLLKVWDGTRTPFPSWRVLIQDLVLEGDLSHIHLQNLIDILVYDNHVVHVAR SLKVGSFLRIYSLHTKLQSMNSENQTMLSLEFHLHGGTSYGRGIRVLPESNSDQDL KKDLESANLTANQHSDVICQSEPDDSFSSGSVSLYEVEVCQQLSATILTDHQYLER

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TPLCAILKQKAPQQYRIRAKLRSYKPRRLFQSVKLHCPKCHLLQEVPHGEDLDIIFQD
 GATKTPVVKLQNTSLYDSKIWTTKNQKGRKVAVHFVKNNGILPLSNECLLLIEGGTSL
 EICKLSNKFNSVIPVRSGHEDLELLDLSAPFLIQGTIHHYGCKQCSSLRSIQNLNSLVD
 KTSWIPSSVAEALGIVPLQYVFVMTFTLDDGTGVLEAYLMDSDKFFQIPASEVLMDD
 DLQKSVDMMMDMFCPPGIKIDAYPWLECFIKSYNVTNGTDNQICYQIFDTTVAEDVIT
 RTRPLEQKLISEEDLAANDILDYKDDDDKV

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

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

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name POT1 protection of telomeres 1 [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_015450

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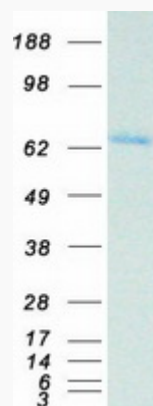
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Protein Refseq NP_056265

MIM 606478

UniProt ID Q9NUX5

SDS-PAGE



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