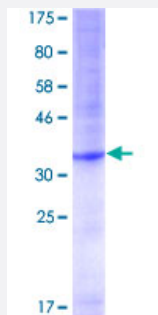


POT1 (Human) Recombinant Protein (Q01)

Catalog # H00025913-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human POT1 partial ORF (NP_056265, 1 a.a. - 95 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MSLVPATNYYTPLNQLKGGTIVNVYGVVKFFKPPYLSKGTDYCSVVTIVDQTNVKLTCLLFSGNYES ALPIYKNGDIVRFHRLKIQVYKKETQG
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.19
Interspecies Antigen Sequence	Mouse (75); Rat (75)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — POT1

Entrez GeneID [25913](#)

GeneBank Accession# [NM_015450](#)

Protein Accession# [NP_056265](#)

Gene Name POT1

Gene Alias DKFZp586D211, hPot1

Gene Description POT1 protection of telomeres 1 homolog (S. pombe)

Omim ID [606478](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations POT1-like telomere end-binding protein|protection of telomeres 1

Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)

- [Endometrial Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Neoplasm Metastasis](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)