

Datasheet for ABIN7565125
POLK Protein (AA 1-852) (His tag)



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Overview

Quantity:	1 mg
Target:	POLK
Protein Characteristics:	AA 1-852
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This POLK protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Polk Protein expressed in mammalian cells.
Sequence:	<p>MDNTKEKDNF KDDLRLMGL NDNKAGMEGL DKEKINKIIM EATKGSRYFG NELKKEKQVN</p> <p>QRIENMMQKQ AQITSQQLRK AQLQVDKFAM ELERNRNLNN TIVHVDMDAF YAAVEMRDNP</p> <p>ELKDKPIAVG SMSMLATSNY HARRFGVRAA MPGFIKRLC PQLIIVPPNF DKYRAVSKEV</p> <p>KEILAEYDPN FMAMSLDEAY LNTQHLQER QDWPEDKRRY FIKMGNYLKI DTPRQEANEL</p> <p>TEYERSISPL LFEDSPDLQ PQGSPFQLNS EEQNNPQIAQ NSVVFGTSAE EVVKEIRFRI</p> <p>EQKTTLTASA GIAPNTMLAK VCSDDKNKPNG QYQILPSRSA VMDFIKDLPI RKVSGIGKVT</p> <p>EKMLMALGIV TCTELYQORA LLSLLFSETS WHYFLHIALG LGSTDLARDG ERKSMSVERT</p> <p>FSEISKTEEQ YSLCQELCAE LAHDLQKEGL KGRTVTIKLK NVNFEVKTRA STVPAAISTA</p> <p>EEIFAIAKEL LRTEVNVGSP HPLRLRLMGV RMSTFSEDD RKHQQRSIIG FLQAGNQALS</p> <p>STGDSLDKTD KTELAKPLEM SHKKSFFDDK RSRISNCQD TSRCKTAGQQ ALQILEPSQA</p> <p>LKKLSESFET SENSNDQCQTF ICPVCFREQE GVSLEAFNEH VDECLDGPST SENSKISCYS</p> <p>HASSADIGQK EDVHPSIPLC EKRGHENGEI TLVDGVDLTG TEDRSKKAAR MDTLENNRSK</p>

Product Details

EECPDIPDKS CPISLENETI STLSRQDSVQ PCTDEVVTGR ALVCPVCNLE QETSDLTLFN
IHVDICLNKG IIQELRNSEG NSVKQPKESS RSTDRLQKAS GRTKRPGTKT KSSTLKKTTP
RDPRHTLDGF FK **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: POLK

Alternative Name: Polk ([POLK Products](#))

Background: DNA polymerase kappa (EC 2.7.7.7) (DINB protein) (DINP),FUNCTION: DNA polymerase specifically involved in DNA repair. Plays an important role in translesion synthesis, where the normal high-fidelity DNA polymerases cannot proceed and DNA synthesis stalls (PubMed:12432099). Depending on the context, it inserts the correct base, but causes frequent base transitions, transversions and frameshifts. Lacks 3'-5' proofreading exonuclease activity. Forms a Schiff base with 5'-deoxyribose phosphate at abasic sites, but does not have lyase

Target Details

	activity (By similarity). {ECO:0000250 UniProtKB:Q9UBT6, ECO:0000269 PubMed:12432099}.
Molecular Weight:	96.0 kDa
UniProt:	Q9QUG2
Pathways:	DNA Damage Repair

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months