

Recombinant Human POLG protein

Cat. No. POLG-1525H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human DNA polymerase gamma catalytic subunit.
Species	Human
Source	E.coli
Description	This is the POLG gene product, the catalytic subunit of DNA polymerase gamma. Pol gamma is the mitochondrial replication and repair DNA polymerase. Defects in the POLG gene are a cause of progressive external ophthalmoplegia with mitochondrial DNA deletions 1 (PEOA1), sensory ataxic neuropathy dysarthria and ophthalmoparesis (SANDO), Alpers-Huttenlocher syndrome (AHS), and mitochondrial neurogastrointestinal encephalopathy syndrome (MNGIE). Pol gamma is also a target of various nucleotide derivatives.
Form	20 mM Tris-HCl, (pH7.5), 200 mM NaCl, 1 mM β-mercaptoethanol, and 10% glycerol
Molecular Mass	140 kDa
Storage	Stable for 2 years at -70 centigrade from date of shipment. Aliquot to avoid repeated freezing and thawing.
Full Length	Full L.

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GENE INFORMATION

Gene Name	POLG polymerase (DNA directed), gamma [Homo sapiens]
Official Symbol	POLG
Synonyms	POLG; polymerase (DNA directed), gamma; DNA polymerase subunit gamma-1; POLG1; POLGA; PolG-alpha; PolG, catalytic subunit; mitochondrial DNA polymerase catalytic subunit; PEO; MDP1; SCAE; MIRAS; SANDO; MTDPS4A; MTDPS4B; FLJ27114;
Gene ID	5428
mRNA Refseq	NM_001126131
Protein Refseq	NP_001119603
MIM	174763
UniProt ID	P54098

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