Recombinant Human POLG protein

Cat. No. POLG-632H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Description	Human DNA Polymerase Gamma is a mitochondrial enzyme used for testing the toxicity of drugs on critical human oxidative functions. Mitochondrial enzyme used for testing the toxicity of drugs on critical human oxidative functions and testing replication of mitochondrial DNA.
Form	20 mM Tris-HCl (pH 8.0), 50 mM NaCl. 50 g/ml PMSF, 0.05% Triton X-100™, 10% DMSO, 5% glycerol
Unit Definition	One unit is the amount of enzyme required to incorporate 1 pmole of total nucleotide into acid-insoluble form in 60 minutes at 37 centigrade.
Notes	All preparations are assayed for contaminating endonuclease and exonuclease activities.
Storage	Store at -80 centigrade Long Term, -20 centigrade Short Term.Avoid multiple freeze / thaw cycles.

GENE INFORMATION

Gene Name	POLG polymerase (DNA directed), gamma [Homo sapiens]
Official Symbol	POLG

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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
Chromosome Location	15q24
Pathway	DNA polymerase gamma complex, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Nucleotide Metabolism, organism-specific biosystem;
Function	DNA binding; DNA-directed DNA polymerase activity; chromatin binding; exonuclease activity; nucleotidyltransferase activity; protease binding; protein binding; transferase activity;

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