Recombinant Human POLE protein

Cat. No. POLE-1522H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DNA polymerase epsilon catalytic fragment (wild type, exo-proficient) expressed in E. coli.
Species	Human
Source	E.coli
Description	DNA polymerase epsilon is a member of B family DNA polymerases. It is involved in DNA repair and chromosomal DNA replication. Mutations in this gene have recently been found associated with colorectal cancer.
Form	50 mM Tris-HCl (pH7.5), 500 mM NaCl, and 10% glycerol.
Molecular Mass	168 kDa
Usage	Suggested reaction buffer (not included): 50 mM Tris-HCl (pH7.4), 8 mM MgCl2, 1 mM DTT, 10% glycerol, 200 M dNTPs, 100 nM DNA primer-template, and, 2 nM - 10nM pol epsilon. Suggested dilution buffer (not included): 50 mM Tris-HCl (pH 7.5), 5 mM-mercaptoethanol, 50% glycerol. Reaction temperature: 37 centigrade Note: Reaction can be stopped by adding equal volume of 95% formamide.
Storage	Stable for 2 years at -70 centigrade from date of shipment. Please aliquot to avoid repeated

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	freezing and thawing.

GENE INFORMATION

Gene Name	POLE polymerase (DNA directed), epsilon [Homo sapiens]
Official Symbol	POLE
Synonyms	POLE; polymerase (DNA directed), epsilon; DNA polymerase epsilon catalytic subunit A; POLE1; DNA polymerase II subunit A; FLJ21434; DKFZp434F222;
Gene ID	5426
mRNA Refseq	NM_006231
Protein Refseq	NP_006222
MIM	174762
UniProt ID	Q07864

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