

Recombinant Mouse Poli Protein, Myc/DDK-tagged

Cat. No. Poli-4990M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length polymerase (DNA directed), iota (Poli), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Error-prone 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. Favors Hoogsteen base-pairing in the active site. Inserts the correct base with high-fidelity opposite an adenosine template. Exhibits low fidelity and efficiency opposite a thymidine template, where it will preferentially insert guanosine. May play a role in hypermutation of immunoglobulin genes. Forms a Schiff base with 5'-deoxyribose phosphate at abasic sites, but may not have lyase activity.
Molecular Mass	75.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Concentration	>50 µg/mL as determined by microplate BCA method
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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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GENE INFORMATION

Gene Name	Poli polymerase (DNA directed), iota [Mus musculus (house mouse)]
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Official Symbol	Poli
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Synonyms	POLI; polymerase (DNA directed), iota; DNA polymerase iota; RAD30 homolog B; Rad30b
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Gene ID	26447
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mRNA Refseq	NM_001136090
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Protein Refseq	NP_001129562
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UniProt ID	Q6R3M4
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