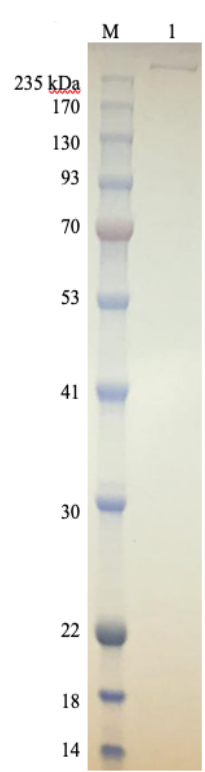


Product Name	Recombinant Human DNA polymerase theta (POLQ) Full Length protein	SDS-PAGE gel 
Synonym(s)	DNA polymerase theta, POLθ, POLH, DinB homolog, DNA polymerase q	
Quantity	10 ug, 50 ug	
Species	Human	
Tag	C- terminal FLAG tag	
Molecular weight	293.5 kDa	
Purity	>98% by SDS-PAGE	
GenBank Accession	NM_199420.4	
UniProt #	O75417, a. a. 1-2590	
Expression Source	Baculovirus	
Application	Cancer research, DNA repair mechanisms study, Drug development study	M – MW Marker 1–POLQ-FL
Formulation	50 mM sodium phosphate buffer pH 8.0, 10% glycerol, 0.1% NP-40, 10 mM b-mercaptoethanol, 1 M NaCl, 200 mg/ml FLAG-peptide	
Storage and Stability	Stable for 12 months at -80°C, Avoid freeze/thaw cycles	
Description	Human DNA polymerase theta protein is an enzyme encoded by the POLQ gene. It belongs to the family of DNA polymerases, which are enzymes involved in DNA replication and repair processes. POLQ is a specialized DNA polymerase with unique characteristics. Unlike other polymerases involved in DNA replication, POLQ is primarily associated with the repair of DNA double-strand breaks (DSBs). DSBs are severe types of DNA damage that can lead to genomic instability and are associated with cancer development.	
Reference	Monica Bubenik, et al., Identification of RP-6685, an Orally Bioavailable Compound that Inhibits the DNA Polymerase Activity of Polθ. J Med Chem. 2022 Oct 13;65(19):13198-13215. Gonzalo Rodriguez-Berriguete, et al., Small-Molecule Polθ Inhibitors Provide Safe and Effective Tumor Radiosensitization in Preclinical Models. Clin Cancer Res. 2023 Apr 14; 29(8): 1631–1642.	

Related products:

TEV Protease-His	190001	1,000 units, 10,000 units
PreScission Protease (HRV 3C)	190002	1,000 units, 10,000 units
Recombinant SUMO Protease (Ulp1)	190003	1,000 units, 10,000 units
TEV Protease-GST	190004	50 ug, 200 ug, 1 mg
TEV Protease-AB	190005-R	50 ug, 200 ug, 1 mg
Recombinant YopH	200100	10 ug, 20 ug, 100 ug, 1 mg
Recombinant Biotin Protein Ligase (BirA)	90101	100 ug
Recombinant SortaseA-5M	90201	50 ug
Recombinant Mouse Leukemia Inhibitory Factor	11-0001	10 ug, 100 ug
Recombinant Human LIF	12-0002	10 ug, 100 ug, 1 mg
Recombinant Human FGF-basic, Carrier-free	12-0005CFR	50 ug, 100 ug, 500 ug, 1 mg
DNA Polymerase Theta-N-Helicase Domain	7657643	20 ug, 100 ug
DNA Polymerase Theta-C terminal Domain	7657283	20 ug, 100 ug, 1 mg
Kras Wild Type (WT), GST-tag	5727-4121G	50 µg, 100 µg
Kras WT, GST-tag, GDP Loaded	5727-WTG-G	50 µg, 100 µg
Kras WT, GST-tag, GppNHp loaded	5727-WTG-GP	50 µg, 100 µg
Kras G12C, GST-tag	5727-4122G	50 µg, 100 µg
Kras G12C, GST-tag, GDP Loaded	5727-4122G -G	50 µg, 100 µg
Kras G12C, GST-tag, GppNHp loaded	5727-4122G -GP	50 µg, 100 µg
Kras G12D, GST-tag	5727-4123G	50 µg, 100 µg
Kras G12D, GST-tag, GDP Loaded	5727-4123G -G	50 µg, 100 µg
Kras G12D, GST-tag, GppNHp loaded	5727-4123G -GP	50 µg, 100 µg
Kras G12V, GST-tag,	5727-4128G	50 µg, 100 µg
Kras G12V, GST-tag, GDP Loaded	5727-4128G -G	50 µg, 100 µg
Kras G12V, GST-tag, GppNHp loaded	5727-4128G -GP	50 µg, 100 µg
Human SOS1, No Tag	7671	50 µg, 100 µg
Human RBD-RAF1, N-His tag, C-FLAG tag	7237231	50 µg, 100 µg
Recombinant SARS-CoV-2 Mpro, 3CL protease	728201	50 ug, 500 ug
Recombinant SARS-CoV-2 Papain-like Protease, CF	728251	50 ug, 100 ug
Recombinant SARS-CoV-2 Helicase (NSP13)	728231	10 ug, 50 ug, 100 ug
Recombinant SARS-CoV-2 NSP7	728264	100 ug, 1mg
Recombinant SARS-CoV-2 NSP8	728265	100 ug, 1mg
Recombinant Human Full length Mst1	56781	10 ug
Human MALT1 (caspase-IG3)	62581	20 ug
Recombinant Human BCL2	225201	100 ug
GST-CDK2: His-CyclinE1	C352E1	10 ug, 100 ug
GST-CDK2: His-CyclinA2	C352A2	10 ug, 100 ug
Recombinant Human Malic enzyme 1 (ME1)	180001	10 ug, 25 ug, 100 ug, 1 mg
Recombinant Human Malic enzyme 2 (ME2)	180002	10 ug, 25 ug, 100 ug, 1 mg
Recombinant Human Malic enzyme 3 (ME3)	180003	10 ug, 25 ug, 100 ug, 1 mg

Products are for research use only and are not intended for human use. We do not sell to patients.