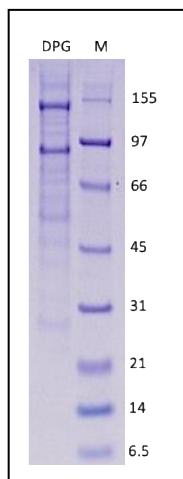


Recombinant DNA Polymerase gamma

Catalog Number	Size
AG322-10	10ug
AG322-25	25ug
AG322-B	Bulk

Description

The recombinant DNA polymerase gamma (POLG1) was expressed in the baculovirus system and purified by the combination of Ni-affinity column and other conventional chromatographic methods. The resulted protein contains 1251 (1239+12) amino acids with an 6His tag at the C-terminus. It migrates in SDS-PAGE with an apparent molecular mass of 145kDa.



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MSRLLWRKVAGATVGPGVPAPGRWVSSSVPASDPSDGQRRRQQQQQQQQ
QQQQQQQQPQVLSSEGGQLRHNPLDIQMLSRGLHEQIFGQGGEEMPGEAAV
RRSVEHLQKHGLWGQPAVPLPDVELRLPPLYGDNLDQHFRLLAQKQSLPY
LEAANLLLQAQLPPKPPAWAWAEGWTRYGPEGEAVPVAIPEERALVFDVE
VCLAEGTCPTLAVAISPSAWYSWCSQRLVEERYSWTSQSLPADLIPLVVP
TGASSPTQRDWQEQLVVGHNVSFDRAHIREQYLIQGSRMRLDTMSMHMA
ISGLSSFQSRSLWIAAKQGKHKVPPTKQGQKSQRKARRGPAISSWDWLDI
SSVNSLAEVHRLYVGPPLEKEPRELFVKGTMKDIRENFQDLMQYCAQDV
WATHEVFQQQLPLFLERC PHPVTLAGMLEMGVSYLPVNQNWERYLAEAQG
TYEELQREMKKSLMDLANDACQLLSGERYKEDPWLWDLEWDLQEFKQKKA
KKVKKEPATASKLPIEGAGAPGDPMDQEDLGPCSEEEFQQDVMARACLQ
KLKGTTELLPKRPQHLPGHPGWYRKLCPRLDDPAWTPGPSLLSLQMRVTP
KLMALTWDGFLPHYSERHGWGYLVPGRDNLAKLPTGTTLESAGVVCYPYR
AIESLYRKHCCLEQGKQQLMPQEAGLAEEFLLTDNSAIWQTVEELDYLEVE
AEAKMENLRAAVPGQPLALTARGGPKDTQPSYHHGNGPYNDVDIPGCWFF
KLPHKDGNSCNVGSPPFAKDFLPKMEDGTLXAGPGGASGPRALEINKMISF
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TRRAVEPTWLTASNARPDRVGSELKAMVQAPPGYTLVGADVDSQELWIAA
VLGDAHFAGMHGCTAFGWMTLQGRKSRGTDLHSKTATTVGISREHAKIFN
YGRIYGAGQPFAERLLMQFNHRLTQQEAAEKAQQMYAATKGLRWYRLSDE
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GGTESEMFNKLESIATSDIPRTPVLGCCISRALPSAVQEEFMTSRVNWV
VQSSAVDYLHMLLVAMKWLFEFFAIDGRFCISIHDEVRYLVREEDRYRAA
LALQITNLLTRCMFAYKLGNDLPQSVAFFSAVDIDRCLRKEVTMDCKTP
SNPTGMERRYGIPQGEALDIYQIIELTKGSLEKRSQPGPGGGVDGHHHHH
H*
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Accession Number

NM_002693

Molecular Mass

Approximately 145kDa.

Purity

≥90%, as determined by SDS-PAGE.



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Biological Activity	Human DNA polymerase γ (POLG1) is a catalytic subunit of mitochondrial DNA polymerase and plays an essential role in neurological disorders. The recombinant DNA polymerase γ protein is suitable for the studies of DNA synthesis in mitochondrial.
Formulation	20mM Tris-Cl (pH7.9), 20% glycerol 100mM NaCl, 1mM DTT and 1mM EDTA.
Storage	The protein sample can be stored under sterile conditions at 2-8°C for one month or at -20°C to -70°C for three months without detectable loss of activity. (<i>Avoid repeated freeze-thaw cycle</i>)

FOR RESEARCH USE ONLY!!!