



Recombinant Human DNA Polymerase gamma 1

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

Specifications and Use

Description

Recombinant human DNA polymerase gamma 1 (POLG1) was expressed in Sf9 cells and purified by an affinity column in combination of other chromatograph methods. The resulted protein is a monomeric polypeptide of 1251 (1239+12) amino acids with a 6His tag at the Cterminus. It migrates in SDS-PAGE with an apparent molecular mass of 145kDa.

MSRLLWRKVAGATVGPVPAPGRWVSSVSPASDPDGQRRRQQQQQQQQQQQPQQPVLSSEGGQLRHNPDI
QMLSRGLHEQIFGQGGEMPGEAAVRRSVEHLQKHGLWGQPAVPLPDVELRLPLYGDNLDQHFRLLAQKQSLPYLE
AANLLQAQLPPKPPAWAWAEGWTRYGPEGEAVPVAIPEERALVFDVEVCLAEGTCPTLAVAISPSAWYSWCSQRLV
EERYSWTSQSLPADLIPLEVPTGASSPTQRDWQEQLVVGHNVSFDRHIREQYLIQGSRMRLDMSMHMAISGLSSF
QRSLWIAAQGKHKVQPPTKQGKSQRKARRGPAISSWDWLDISSVNSLAEVHRLYVGGPPLEKEPRELFVKGTMKD
IRENFQDLMQYCAQDVWATHEVFQQQLPLFLERCPHPVTLAGMLEMGVSYLPVNQNWERYLAEAQGTYEELQREM
KKSLMDLANDACQLLSGERYKEDPWLWDLEWDLQEFKQKKAKKVKEPATASKLPIEGAGAPGDPMDQEDLGPCS
EEEEFQQDVMARACLQKLKGTTELLPKRPQHLPGHGPGWYRKLCPRLDDPAWTPGPSLLSLQMRVTPKLMALTWDGF
PLHYSERHGWGYLVPGRDNLAKLPTGTTLESAGVVCYPYRAIESLYRKHCLEQKGKQQLMPQEAGLAEFLLTDSAI
WQTVEELDYLEVEAEAKMENLRAAVPGQPLALTARGGPKDTQPSYHHNGPYNDVDIPGCWFFKLPHKDGNSCNV
GSPFAKDFLPKMEDGTLXAGPGGASGPRALEINKMISFWRNAHKRISSQMVVWLPRALPRAVIRHPDYDEEGLYGAI
LPQVVTAGTITRAVEPTWLTASNARPDVGSSELKAMVQAPPGYTLVGADVDSQELWIAAVLGDAHFAGMHGCTAF
GWMTLQGRKSRGTDLHSKTATTVGISREHAKIFNYGRIYGAGQPFAERLLMQFNHRLTQEEAAEKAQQMYAATKGL
RWYRLSDEGEWLVRELNPVDRTEGGWISLQDLRKVQRETARKSQWKKWEVVAERAWKGGTESEMFNKLIESIATS
DIPRTPVLGCCISRALEPSAVQEEFMTSRVNWVVQSSAVDYLHMLVAMKWLFEFEAIDGRFCISIHDEVRYLVREED
RYRAALALQITNLLTRCMFAYKGLNDLPQSVAFFSAVDIDRCLRKEVTMDCKTPSNPTGMERRYGIPQGEALDIYQII
ELTKGSLEKRSQGP

GGGVVDGHHHHH H*

Accession Number

NM_002693

Source

Sf9

Molecular Mass

Approximately 145kDa.

Purity

≥90%, as determined by SDS-PAGE

Biological Activity

Human DNA polymerase gamma 1 (POLG1) is the catalytic subunit of mitochondrial DNA polymerase and plays an essential role in neurological diseases.

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.

Special Notes

FOR RESEARCH ONLY