

EXO I Protein, E. coli (His)

Cat. No.:	HY-P78947
Synonyms:	
Species:	E.coli
Source:	E. coli
Accession:	P04995
Gene ID:	946529
Molecular Weight:	Approximately 54.5 kDa

PROPERTIES

AA Sequence	<pre> MMNDGKQQST FLFHDYETFG THPALDRPAQ FAAIRTDSEF NVIGEPVIFY CKPADDYLPQ PGAVLITGIT PQEARAKGEN EAAFAARIHS LFTVPKTCIL GYNNVRFDDE VTRNIFYRNF YDPYAWSWQH DNSRWDLLDV MRACYALRPE GINWPENDDG LPSFRLEHLT KANGIEHSNA HDAMADVYAT IAMAKLVKTR QPRLFDYLFT HRNKHKLMAL IDVPQMKPLV HVS GMFGAWR GNTSWVAPLA WHPENRNAVI MVDLAGDISP LLELDSDTLR ERLYTAKTDL GDNAAVPVKL VHINKCPVLA QANTLRPEDA DRLGINRQHC LDNLKILREN PQVREKVVAI FAEAEPFTPS DNVDAQLYNG FFS DADRAAM KIVLETEPRN LPALDITFVD KRIEKLLFNY RARNFPGTLD YAEQQRWLEH RRQVFTPEFL QGYADELQML VQYADDKEK VALLKALWQY AEEIV </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	EXO I Protein, as the subject, exhibits a high processivity in the degradation of single-stranded DNA (ssDNA), as documented in various studies. Additionally, it functions as a DNA deoxyribophosphodiesterase, playing a role in the release of deoxyribose-phosphate moieties. This activity occurs following the cleavage of DNA at an apurinic/aprimidinic (AP) site,
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catalyzed by either an AP endonuclease or AP lyase. The dual functionality of EXO I in ssDNA degradation and the removal of deoxyribose-phosphate moieties at AP sites reflects its crucial role in DNA repair processes and maintenance of genome integrity.

Caution: Product has not been fully validated for medical applications. For research use only.

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