

APE Protein, Human, Recombinant

General Information

Synonyms:	APEX; Apurinic-Apyrimidinic Endonuclease 1; APEN; DNA-(Apurinic or Apyrimidinic Site) Lyase; AP Endonuclease 1; APE1; Redox Factor-1; REF1; APE-1REF-1; HAP1; APX; APE; APEX1; APEX Nuclease
Protein Construction:	Pro2-Leu318
Species:	Human
Expression Host:	E. coli
Accession:	AAH02338.1
Molecular Weight:	40 KDa (reducing condition)
AA Sequence:	Pro2-Leu318

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 10 mM HEPES, 100 mM KCl, 50% Glycerol, pH 7.4.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Apurinic-Apyrimidinic Endonuclease 1 (APE1) is required for efficient DNA base excision repair. When the DNA glycosylase remove the damaged bases, APE1 cleaves the AP site to allow resynthesis and ligation to complete repair. APE1 stimulates the DNA binding activity of many transcription factors, which participate in cancer promotion and progression. APE1 regulates the redox state of multiple transcription factors, such as c-Jun, c-Fos, NF-κB, p53. APEN is also involved in calcium-dependent down-regulation of PTH expression.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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