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Recombinant Human APE1/APE Protein (His Tag)

Catalog No. PKSH030851

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms DNA-(Apurinic or Apyrimidinic Site) Lyase; APEX Nuclease; APEN; Apurinic-

Apyrimidinic Endonuclease 1;AP Endonuclease 1;APE-1REF-1;Redox

Factor-1;APEX1;APE;APE1;APEX;APX;HAP1;REF1

Species Human
Expression Host E.coli

Sequence Pro2-Leu 318

AccessionP27695Calculated Molecular Weight37.0 kDaObserved molecular weight37 kDaTagN-His

Bioactivity Not validated for activity

Properties

Purity > 92 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.5

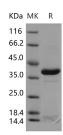
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 92 % as determined by reducing SDS-PAGE.

Background

For Research Use Only

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The enzyme is known to be a redox factor (Ref-1) stimulating DNA binding activity of AP-1 binding proteins such as Fos and Jun as well as a multifunctional DNA repair enzyme having 5' AP endonuclease; DNA 3' repair diesterase; 3'-5' exonuclease and DNA 3'-phosphatase activities. Although Apex mRNA was expressed ubiquitously; the levels varied significantly; suggesting organ- or tissue-specific expression of the Apex gene. The highest level was observed in the testis; relatively high levels in the thymus; spleen; kidney and brain; and the lowest level in the liver in rats. However; the present results suggested that APEX/Ref-1 gene product can interact with AP-1 binding proteins in brain; especially in the hippocampal formation; to regulate some brain functions by redox-activation.

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