Recombinant Human APE1/APE Protein (His Tag)

Catalog Number: PKSH030851

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

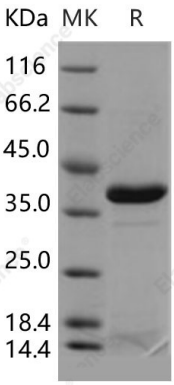
Description

Species	Human
Source	E.coli-derived Human APE1/APE protein Pro2-Leu 318, with an N-terminal His
Calculated MW	37 kDa
Observed MW	37 kDa
Accession	P27695
Bio-activity	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% Tween 80 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

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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