

Product information

APEX1, 1-318 aa

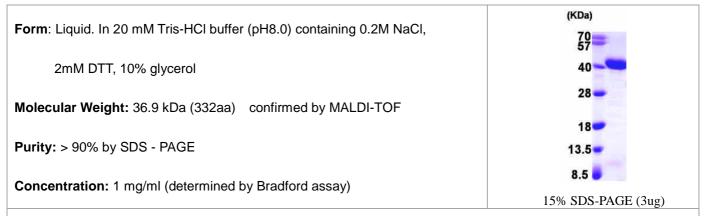
Human, T7-tagged, Recombinant, E.coli

Cat. No. IBATGP0881

Full Name: APEX nuclease (multifunctional DNA repair enzyme) 1 NCBI Accession No.: AAH19291

Synonyms: APE, APE1, APEN, APX, HAP1, REF-1, REF1

Description: APEX1, also known as REF1 or APE1 (Apurinic / apyrimidinic endonuclease), is responsible for the incision of DNA basic sites during base excision repair. It has also been shown to stimulate the DNA binding activity of numerous transcription factors that are involved in cancer promotion and progression. APEX1 is part of the cellular response to oxidative stress and protects cells from the genotoxic and cytotoxic effect of oxidizing agents. Recombinant human APEX1 protein, fused to T7-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.



Sequences of amino acids:

MASMTGGQQM GRGSMPKRGK KGAVAEDGDE LRTEPEAKKS KTAAKKNDKE AAGEGPALYE DPPDQKTSPS GKPATLKICS WNVDGLRAWI KKKGLDWVKE EAPDILCLQE TKCSENKLPA ELQELPGLSH QYWSAPSDKE GYSGVGLLSR QCPLKVSYGI GEEEHDQEGR VIVAEFDSFV LVTAYVPNAG RGLVRLEYRQ RWDEAFRKFL KGLASRKPLV LCGDLNVAHE EIDLRNPKGN KKNAGFTPQE RQGFGELLQA VPLADSFRHL YPNTPYAYTF WTYMMNARSK NVGWRLDYFL LSHSLLPALC DSKIRSKALG SDHCPITLYL AL

General references:

Hinz AK., et al. (2010) J Biol Chem. 285(37):28683-90.

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.



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Wu HH., et al. (2010) Oncogene. 29(30):4330-40.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

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