

## APEX1 Human

**Description:**APEX1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 332 amino acids (1-318a.a.) and having a molecular mass of 36.9kDa.APEX1 protein is fused to a 14 amino acid T7-tag at N-terminus and is purified by standard chromatography.

Catalog #:ENPS-066

For research use only.

**Synonyms:**APEX nuclease (multifunctional DNA repair enzyme) 1, APE, REF1, HAP1, APX, APEN, APEX, Apurinic-apyrimidinic endonuclease 1, Protein REF-1, AP endonuclease 1, APEX nuclease (multifunctional DNA repair enzyme), APE-1, deoxyribonuclease (apurinic or apyrimi

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile filtered colorless solution.

**Amino Acid Sequence:**MASMTGGQQM GRGSM PKRGK KGAVAEDGDE LRTEPEAKKS  
KTAACKNDKE AAGEGPALYE DPPDQKTPS GK PATLKICS WNV DGLRAWI KKKGLDWVKE  
EAPDILCLQE TKCSENK LPA ELQELPGLSH QYWSAPSDKE GYSGVGLLSR QCPLKVSYGI  
GEEHDQEGR VIVA E FDSFV LVTAYVPNAG RGLVRLEYRQ RWDEAFRKF L KGLASRKPLV  
LCGDLNVAHE EI

**Purity:**Greater than 90% as determined by SDS-PAGE.

### Formulation:

APEX1 Human solution (1mg/ml) containing 20mM Tris-HCl pH-8, 2mM DTT, 0.2M NaCl, and 10% glycerol.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

APEX1 is in charge of the incision of DNA basic sites during base excision repair. APEX1 also stimulates the DNA binding activity of numerous transcription factors which take part 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.

### Storage:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

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