
Product Data Sheet

Product Name: APEX1 Human
 Cat. No.: GP21406
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	<p>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 apyrimidinic); apurinic/apyrimidinic exonuclease; AP endonuclease class I; multifunctional DNA repair enzyme; redox factor 1; EC 4.2.99.18.</p>		
Amino Acid Sequence	<p>MASMTGGQQM GRGSMPCRKRGK KGAVAEDGDE LRTEPEAKKS KTAACKNDKE AAGEGPALYE DPPDQKTSPS GKPATLKICS WNV DGLRAWI KKKGLDWVKE EAPDILCLQE TKCSENKLP A ELQELPGLSH QYWSAPSDKE GYSGVGLLSR QCPLKVS YGI GEEHDQEGR VIVAEFDSFV LVTAYVPNAG RGLVRL EYRQ RWDEAFR KFL KGLASRKPLV LCGDLNVAHE EIDLRNPKGN KKNAGFTPQE RQGF GELLQA VPLADSF RHL YPNTPYAYTF WTYMMNARSK NVGWRLDYFL LSHSLLPALC DSKIRSKALG SDHCPITLYL AL.</p>		
Formulation	<p>APEX1 Human solution (1mg/ml) containing 20mM Tris-HCl pH-8, 2mM DTT, 0.2M NaCl, and 10% glycerol.</p>		

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. Please avoid freeze thaw cycles.

Background

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.

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