

# Recombinant human XPA protein

Catalog Number: ATGP1932

## PRODUCT INFORMATION

---

**Expression system**

E.coli

**Domain**

1-273aa

**UniProt No.**

P23025

**NCBI Accession No.**

NP\_000371

**Alternative Names**

DNA repair protein complementing XP-A cells, XP1, XPAC

## PRODUCT SPECIFICATION

---

**Molecular Weight**

33.8 kDa (296aa)

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

**Purity**

&gt; 85% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE, Denatured

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

---

**Description**

XPA, also known as DNA repair protein complementing XP-A cells, belong to the XPA family. This protein is involved in DNA excision repair. It Initiates repair by binding to damaged sites with various affinities, depending on the photoproduct and the transcriptional state of the region. Defects in XPA are a cause of xeroderma pigmentosum complementation group A (XP-A), which is a rare human autosomal recessive disease characterized by solar sensitivity, high predisposition for developing cancers on areas exposed to sunlight and, in some cases, neurological abnormalities. Recombinant human XPA protein, fused to His-tag at N-terminus, was

# Recombinant human XPA protein

Catalog Number: ATGP1932

expressed in E. coli.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MAAADGA LPEAAALEQP AELPASVRAS IERKRQRALM LRQARLAARP  
YSATAAAATG GMANVKAAPK IIDTGGGFIL EEEEEEQKI GKVVHQPGPV MEFDYVICEE CGKEFMDSYL MNHFDLPTCD  
NCRDADDKHK LITKTEAKQE YLLKDCDLEK REPPLKFIVK KNPHHSQWGD MKLYLKLQIV KRSLEVWGSQ EALEEAKVR  
QENREKMKQK KFDKVKELR RAVRSSVWKR ETIVHQHEYG PEENLEDDMY RKTCTMCGHE LTYEKM

## General References

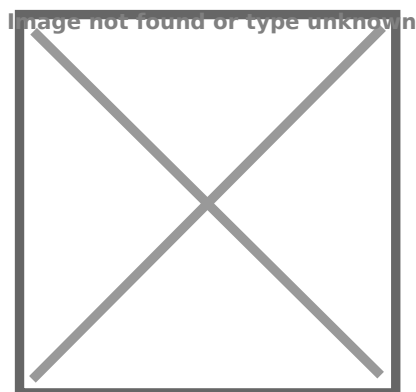
Pan Y.R., et al. (2009) Cell Cycle 8:655-664

James, et al. (2005) Andrews' Diseases of the Skin: Clinical Dermatology. (10th ed.). Saunders.

## DATA

---

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.