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
> 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

expressed in E. coli.

Amino acid Sequence

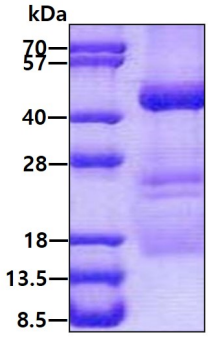
<MGSSHHHHHH SSGLVPRGSH MGS>MAAADGA LPEAAALEQP AELPASVRAS IERKRQRALM LRQARLAARP YSATAAAATG GMANVKAAPK IIDTGGGFIL EEEEEEEQKI GKVVHQPGPV MEFDYVICEE CGKEFMDSYL MNHFDLPTCD NCRDADDKHK LITKTEAKQE YLLKDCDLEK REPPLKFIVK KNPHHSQWGD MKLYLKLQIV KRSLEVWGSQ EALEEAKEVR QENREKMKQK KFDKKVKELR RAVRSSVWKR ETIVHQHEYG PEENLEDDMY 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.