

## Recombinant Human XPA, His-tagged

**Cat. No.** XPA-7232H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human XPA protein, fused to His-tag at N-terminus, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>description</b>	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.
<b>source</b>	E. coli
<b>species</b>	Human
<b>tag</b>	His
<b>form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
<b>molecular mass</b>	33.8 kDa (296aa)

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>aa sequence</b>	<p>MGSSHHHHH SSGLVPRGSH MGSMAAADGA 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</p>
<b>purity</b>	>85% by SDS - PAGE
<b>applications</b>	SDS-PAGE
<b>storage</b>	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.
<b>concentration</b>	1 mg/ml

## GENE INFORMATION

<b>gene name</b>	XPA xeroderma pigmentosum, complementation group A [ Homo sapiens ]
<b>official symbol</b>	XPA
<b>synonyms</b>	XPA; xeroderma pigmentosum, complementation group A; DNA repair protein complementing XP-A cells; XP1; XPAC; excision repair-controlling; xeroderma pigmentosum group A-complementing protein;
<b>Gene ID</b>	7507
<b>mrna refseq</b>	NM_000380
<b>protein refseq</b>	NP_000371

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<b>mim</b>	611153
<b>uniprot id</b>	P23025
<b>chromosome location</b>	9q22.3
<b>pathway</b>	DNA Repair, organism-specific biosystem; Dual incision reaction in GG-NER, organism-specific biosystem; Formation of incision complex in GG-NER, organism-specific biosystem; Global Genomic NER (GG-NER), organism-specific biosystem; Nucleotide Excision Repair, organism-specific biosystem; Nucleotide excision repair, organism-specific biosystem; Nucleotide excision repair, conserved biosystem;
<b>function</b>	damaged DNA binding; metal ion binding; nucleotide binding; protein binding; protein domain specific binding; protein homodimerization activity;

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