OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

OriGene Technologies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info-de@origene.com

AR50756PU-N Human XPA / XPAC (1-273, His-tag) - Purified

Alternate names: DNA repair protein complementing XP-A cells, Xeroderma pigmentosum group A-complementing protein

Quantity: 0.5 mg

Concentration: 1 mg/ml (determined by Bradford assay)

Background: 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.

Uniprot ID: P23025

NCBI: NP_000371

GeneID: 7507

Species: Human

Source: E. coli

Format:
State: Liquid purified protein
Purity: >85% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Description: Recombinant human XPA protein, fused to His-tag at N-terminus, was expressed in E.coli.
AA Sequence:
MGSSHHHHHH 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
Molecular weight: 33.8 kDa (296aa)

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: Pan Y.R., et al. (2009) Cell Cycle 8:655-664James, et al. (2005) Andrews' Diseases of the Skin: Clinical Dermatology. (10th ed.). Saunders.