

Product datasheet for **AR50370PU-N**

ERCC1 (1-273, His-tag) Human Protein

Product data:

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|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | ERCC1 (1-273, His-tag) human recombinant protein, 0.25 mg |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | MGSSHHHHHH SSGLVPRGSH MGSHPDPGKD KEGVPQPSGP PARKKFVIPL DEDEVPPGVA KPLFRSTQSL PTVDTSAQAA PQTAEYAI S QPLEGAGATC PTGSEPLAGE TPNQALKPGA KSNSIIVSPR QRGNPVLK FV RNVPWEFGDV IPDYVLGQST CALFLSLRYH NLHPDYIHGR LQSLGKNFAL RVLLVQVDVK DPQQALKELA KMCILADCTL ILAWSPEEAG RYLETYKAYE QKPADLLMEK LEQDFVSRSL EQLIAASRED LALCPGLGPQ KARRLFDVLH EPFLKVP |
| Tag: | His-tag |
| Predicted MW: | 32.5 kDa |
| Concentration: | lot specific |
| Purity: | >90% by SDS - PAGE |
| Buffer: | Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1 mM DTT |
| Preparation: | Liquid purified protein |
| Protein Description: | Recombinant human ERCC1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography. |
| 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. |
| Stability: | Shelf life: one year from despatch. |
| RefSeq: | NP_001159521 |
| Locus ID: | 2067 |
| UniProt ID: | P07992 |
| Cytogenetics: | 19q13.32 |
| Synonyms: | COFS4; RAD10; UV20 |



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Summary:

The product of this gene functions in the nucleotide excision repair pathway, and is required for the repair of DNA lesions such as those induced by UV light or formed by electrophilic compounds including cisplatin. The encoded protein forms a heterodimer with the XPF endonuclease (also known as ERCC4), and the heterodimeric endonuclease catalyzes the 5' incision in the process of excising the DNA lesion. The heterodimeric endonuclease is also involved in recombinational DNA repair and in the repair of inter-strand crosslinks. Mutations in this gene result in cerebrooculofacioskeletal syndrome, and polymorphisms that alter expression of this gene may play a role in carcinogenesis. Multiple transcript variants encoding different isoforms have been found for this gene. The last exon of this gene overlaps with the CD3e molecule, epsilon associated protein gene on the opposite strand. [provided by RefSeq, Oct 2009]

Protein Families:

Druggable Genome

Protein Pathways:

Nucleotide excision repair

Product images: