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Recombinant human ERCC1 protein

Catalog Number: ATGP1546

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-273aa

UniProt No.
P07992

NCBI Accession No.
NP_001159521.1

Alternative Names
DNA excision repair protein ERCC-1, COFS4, RAD10, uV20

PRODUCT SPECIFICATION

Molecular Weight
32.5 kDa (297aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

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
ERCC1, also known as DNA excision repair protein ERCC-1, 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. Defects in ERCC1 are the cause of cerebro-oculo-facio-skeletal syndrome type 4 (COFS4). Recombinant human ERCC1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

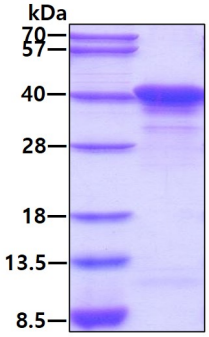
<MGSSHHHHHH SSGLVPRGSH MGSH>MDPGKD KEGVPQPSGP PARKKFVIPL DEDEVPPGVA KPLFRSTQSL PTVDTSAQAA PQTYAEYAIS QPLEGAGATC PTGSEPLAGE TPNQALKPGA KSNSIIVSPR QRGNPVLKFV RNVPWEFGDV IPDYVLGQST CALFLSLRYH NLHPDYIHGR LQSLGKNFAL RVLLVQVDVK DPQQALKELA KMCILADCTL ILAWSPEEAG RYLETYKAYE QKPADLLMEK LEQDFVSRSL EQLIAASRED LALCPGLGPQ KARRLFDVLH EPFLKVP

General References

van Duin M., et al. (1986) Cell. 44:913-923
Grimwood J., et al. (2004) Nature. 428:529-535

DATA

SDS-PAGE



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