

**ERCC1, 1-273aa, Human, His tag, E.coli**

**Cat.NO.: TP02041**

---

3th Edition

**Synonyms:**DNA excision repair protein ERCC-1, COFS4, RAD10, UV20.

**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.

**Form:**Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

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

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSHMDPGKDKEGVPQPSGPPARKKFFVIPLDEDEVPPGVAKPLFRSTQSLPTVD  
TSAQAAPQTYAEYAIQPLEGAGATCPTGSEPLAGETPNQALKPGAKSNSIIVSPRQRGNPVLKFRNVPWEFGDV  
IPDYVLGQSTCALFLSLRYHNLHPDYIHGRLQSLGKNFALRVLLVQVDVKDPQQALKELAKMCILADCTLILAWSPEE  
AGRYLETYKAYEQKPADLLMEKLEQDFVSRSLQLIAASREDLALCPGLGPQKARRLFDVLHEPFLKVP

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**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.