
Product Data Sheet

Product Name: ERCC1 Human
 Cat. No.: GP23413
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Excision Repair Cross-complementing rodent repair deficiency complementation group 1 (includes overlapping antisense sequence); RAD10; COFS4; UV20; DNA excision repair protein ERCC-1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMDPGKD KEGVPQPSGP PARKKFVIPL DEDEVPPGVA KPLFRSTQSL PTVDTSAQAA PQTYAEY AIS QPLEGAGATC PTGSEPLAGE TPNQALKPGA KSNSIIVSPR QRGNPVLK FV RNVPWEFGDV IPDYVLGQST CALFLSLRYH NLHPDYIHGR LQSLGKNFAL RVLLVQVDVK DPQQALKELA KMCILADCTL ILAWSPEEAG RYLETYKAYE QKPADLLMEK LEQDFVSRSL EQLIAASRED LALCPGLGPQ KARRLFDVLH EPFLKVP		
Formulation	The ERCC1 solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 1mM DTT and 20% glycerol.		

Introduction

ERCC1 polypeptide is essential for nucleotide excision repair (NER) of damaged DNA and is homologous to *Saccharomyces cerevisiae* RAD10, which takes part in repair and mitotic intra-chromosomal recombination. NER mechanism includes dual incisions on both sides of the damage catalyzed by two nucleases. In mammalian cells XPG cleaves 3' of the DNA lesion while the ERCC1-XPF complex makes the 5' incision.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

ERCC1 Human Recombinant produced in *E. coli* is a single polypeptide chain containing

Caution: Product has not been fully validated for medical applications. For research use only.

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297 amino acids (1-273) and having a molecular mass of 32.5kDa. ERCC1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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