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Product datasheet for PH300478

ERCC1 (NM_001983) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ERCC1 MS Standard C13 and N15-labeled recombinant protein (NP_001974)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200478
Predicted MW:	32.6 kDa
Protein Sequence:	>RC200478 protein sequence Red=Cloning site Green=Tags(s) MDPGKDKEGVPQPSGPPARKKFVIPLDEDEVPPGVAKPLFRSTQSLPTVDTSAQAAPQTYAEYAISQPLE GAGATCPTGSEPLAGETPNQALKPGAKSNSIIVSPRQRGNPVLKFVRNVPWEFGDVIPDYVLGQSTCALF LSLRYHNLHPDYIHGRLQSLGKNFALRVLLVQVDVKDPQQALKELAKMCILADCTLILAWSPEEAGRYLE TYKAYEQKPADLLMEKLEQDFVSRVTECLTTVKSVNKTDSQTLLTTFGSLEQLIAASREDLALCPGLGPQ KARRLFDVLHEPFLKVP TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001974
RefSeq Size:	3400
RefSeq ORF:	891
Synonyms:	COFS4; RAD10; UV20
Locus ID:	2067

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UniProt ID: P07992, A0A024R0Q6

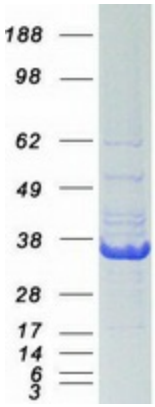
Cytogenetics: 19q13.32

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:



Coomassie blue staining of purified ERCC1 protein (Cat# [TP300478]). The protein was produced from HEK293T cells transfected with ERCC1 cDNA clone (Cat# [RC200478]) using MegaTran 2.0 (Cat# [TT210002]).