

Datasheet for ABIN7553817
ERCC8 Protein (AA 1-396) (His tag)



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Overview

Quantity:	1 mg
Target:	ERCC8
Protein Characteristics:	AA 1-396
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ERCC8 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat ERCC8 Protein expressed in mammalian cells.
Sequence:	<p>MLGFLSARQT GLEDPLRLRR AESTRRVLGL ELNKDRDVER IHGGGINTLD IEPVEGRYML</p> <p>SGGSDGVIVL YDLENSSRQS YYTCKAVCSI GRDHPDVHRY SVETVQWYPH DTGMFTSSSF</p> <p>DKTLKVWDTN TLQTADVFNF EETVYSHHMS PVSTKHCLVA VGTRGPKVQL CDLKSQSCSH</p> <p>ILQGHRQEIL AVSWSPRYDY ILATASADSR VKLWDVRRAS GCLITLDQHN GKKSQAVESA</p> <p>NTAHNGKVNG LCFTSDGLHL LTVGTDNRMR LWNSSNGENT LVNYGKVCNN SKKGLKFTVS</p> <p>CGCSSEFV FV PYGSTIAVYT VYSGEQITML KGHYKTVGCC VFQSNFQELY SGSRDCNILA</p> <p>WVPSLYEPVP DDETTTTSQ LNPAFEDAWS SSDEEG Sequence without tag. The proposed</p> <p>Purification-Tag is based on experiences with the expression system, a different complexity</p> <p>of the protein could make another tag necessary. In case you have a special request, please</p> <p>contact us.</p>
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	ERCC8
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Alternative Name:	ERCC8 (ERCC8 Products)
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Background:	DNA excision repair protein ERCC-8 (Cockayne syndrome WD repeat protein CSA),FUNCTION: Substrate-recognition component of the CSA complex, a DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complex, involved in transcription-coupled nucleotide excision repair. The CSA complex (DCX(ERCC8) complex) promotes the ubiquitination and subsequent proteasomal degradation of ERCC6 in a UV-dependent manner, ERCC6 degradation is essential for the recovery of RNA synthesis after transcription-coupled repair. It is required for the recruitment of XAB2, HMGN1 and TCEA1/TFIIS to a transcription-coupled repair complex which removes RNA polymerase II-blocking lesions from the transcribed strand of active genes. Plays a role in DNA single-strand and double-strand breaks (DSSBs) repair, involved in repair of DSSBs by non-homologous end joining (NHEJ) (PubMed:29545921). {ECO:0000269 PubMed:16751180, ECO:0000269 PubMed:16916636, ECO:0000269 PubMed:16964240, ECO:0000269 PubMed:29545921}.
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Molecular Weight:	44.1 kDa
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UniProt:	Q13216
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Target Details

Pathways: [DNA Damage Repair, Positive Regulation of Response to DNA Damage Stimulus](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months