

Datasheet for ABIN7556057
XRCC3 Protein (AA 1-346) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	XRCC3
Protein Characteristics:	AA 1-346
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This XRCC3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant XRCC3 Protein expressed in mammalian cells.
Sequence:	MDL DLLDLNP RIIAAIKKAK LKSVKEVLHF SGPDLKRLTN LSSPEVWHLL RTASLHLRGS SILTALQLHQ QKERFPTQHQ RLSLGCPVLD ALLRGGLPLD GITELAGRSS AGKTQLALQL CLAVQFPRQH GGLEAGAVYI CTEDAFPHKR LQQLMAQQPR LRTDVPGELL QKLRFQSQIF IEHVADVDTL LECVNKKVPV LLSRGMARLV VIDSVAAPFR CEFDSQASAP RARHLQSLGA TLRELSSAFQ SPVLCINQVT EAMEEQGAAH GPLGFWDERV SPALGITWAN QLLVRLADR LREEEAALGC PARTLRVLSA PHLPPSSCSY TISAEGVRGT PGTQSH Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
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Grade:	custom-made
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Target Details

Target:	XRCC3
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Alternative Name:	XRCC3 (XRCC3 Products)
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Background:	DNA repair protein XRCC3 (X-ray repair cross-complementing protein 3),FUNCTION: Involved in the homologous recombination repair (HRR) pathway of double-stranded DNA, thought to repair chromosomal fragmentation, translocations and deletions. Part of the RAD51 paralogue protein complex CX3 which acts in the BRCA1-BRCA2-dependent HR pathway. Upon DNA damage, CX3 acts downstream of RAD51 recruitment, the complex binds predominantly to the intersection of the four duplex arms of the Holliday junction (HJ) and to junctions of replication forks. Involved in HJ resolution and thus in processing HR intermediates late in the DNA repair process, the function may be linked to the CX3 complex and seems to involve GEN1 during mitotic cell cycle progression. Part of a PALB2-scaffolded HR complex containing BRCA2 and RAD51C and which is thought to play a role in DNA repair by HR. Plays a role in regulating mitochondrial DNA copy number under conditions of oxidative stress in the presence of RAD51 and RAD51C. {ECO:0000269 PubMed:14716019, ECO:0000269 PubMed:20413593, ECO:0000269 PubMed:23108668, ECO:0000269 PubMed:23149936}.
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Molecular Weight:	37.9 kDa
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Target Details

UniProt: [O43542](#)

Pathways: [DNA Damage Repair](#)

Application Details

Application Notes: We expect the protein to work for functional studies. 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