

Datasheet for ABIN7553164  
**CDT1 Protein (AA 1-546) (His tag)**



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## Overview

Quantity:	1 mg
Target:	CDT1
Protein Characteristics:	AA 1-546
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDT1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant CDT1 Protein expressed in mammalian cells.
Sequence:	<p>MEQRRVTDFE ARRRPGPPRI APPKLACRTP SPARPALRAP ASATSGSRKR ARPPAAPGRD</p> <p>QARPPARRRL RLSVDEVSSP STPEAPDIPA CPSPGQKIKK STPAAGQPPH LTSAQDQDTI</p> <p>SELASCLQRA RELGARVRAL KASAQDAGES CTPEAEGRPE EPCGEKAPAY QRFHALAQPG</p> <p>LPGLVLPYKY QVLAEMFRSM DTIVGMLHNR SETPTFAKVQ RGVQDMMRRR FEECNVGQIK</p> <p>TVYPASYRFR QERSVPTFKD GTRRSYDQLT IEPLLEQEAD GAAPQLTASR LLQRRQIFSQ</p> <p>KLVEHVKEHH KAFLASLSPA MIVPEDQLTR WHPRFNVDEV PDIEPAALPQ PPATEKLTTA</p> <p>QEVLARARNL ISPRMEKALS QLALRSAAPS SPGSPRPALP ATPPATPPAA SPSALKGVSQ</p> <p>DLLERIRAKE AQKQLAQMTR CPEQEQLRQR LERLPELARV LRSVVFVERK PALSMEVACA</p> <p>RMVGSCTTIM SPGEMEKHLL LSELLPDWL SLHRIRTDTY VKLDKAADLA HITARLAHQRT RAE EGL</p>

**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.**

## Product Details

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:	<p><b>Key Benefits:</b></p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

## Target Details

Target:	CDT1
Alternative Name:	CDT1 ( <a href="#">CDT1 Products</a> )
Background:	<p>DNA replication factor Cdt1 (Double parked homolog) (DUP),FUNCTION: Required for both DNA replication and mitosis (PubMed:11125146, PubMed:22581055, PubMed:21856198, PubMed:14993212, PubMed:26842564). DNA replication licensing factor, required for pre-replication complex assembly. Cooperates with CDC6 and the origin recognition complex (ORC) during G1 phase of the cell cycle to promote the loading of the mini-chromosome maintenance (MCM) complex onto DNA to generate pre-replication complexes (pre-RC)(PubMed:14672932). Required also for mitosis by promoting stable kinetochore-microtubule attachments (PubMed:22581055). Potential oncogene (By similarity). {ECO:0000250 UniProtKB:Q8R4E9, ECO:0000269 PubMed:11125146, ECO:0000269 PubMed:14672932, ECO:0000269 PubMed:14993212, ECO:0000269 PubMed:21856198, ECO:0000269 PubMed:22581055, ECO:0000269 PubMed:26842564}.</p>

## Target Details

Molecular Weight:	60.4 kDa
UniProt:	<a href="#">Q9H211</a>
Pathways:	<a href="#">MAPK Signaling</a> , <a href="#">Mitotic G1-G1/S Phases</a> , <a href="#">DNA Replication</a> , <a href="#">Synthesis of DNA</a>

## 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