

# Recombinant Human DICER1, His-tagged

**Cat. No.** DICER1-28329TH    **Lot. No.** (See product label)

## SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant fragment, corresponding to amino acids 1566-1922 of Human Dicer with N terminal His tag; Predicted MWt 42 kDa.                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>             | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>      | 1566-1922 a.a.                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>        | This gene encodes a protein possessing an RNA helicase motif containing a DEXH box in its amino terminus and an RNA motif in the carboxy terminus. The encoded protein functions as a ribonuclease and is required by the RNA interference and small temporal RNA (stRNA) pathways to produce the active small RNA component that represses gene expression. Alternative splicing results in multiple transcript variants. |
| <b>Conjugation</b>        | HIS                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Form</b>               | Lyophilised:Reconstitute with 141 µl aqua dest.                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage buffer</b>     | Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5                                                                                                                                                                                                                                                                                                              |
| <b>Storage</b>            | Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                      |
| <b>Sequences of amino</b> | LLGCYLTSCGERAAQLFLCSLGLKVLVPVIKRTDREKALCP TRENFNSQQKNLSVSCA                                                                                                                                                                                                                                                                                                                                                                |

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**acids**

AASVASSRSSVLKDSEYGCLK IPPRCMFDHPDADKTLNHLISGFENFEKKINYRFGN  
 KA YLLQAFTHASYHYNTITDCYQRLEFLGDAILDYLTKEH LYEDPRQHSPGVLTDLRS  
 ALVNNTIFASLAVKYDYHKYFK AVSPELFHVIDDFVQFQLEKNEMQGMDSSELRRSEE  
 DEE KEEDIEVPMKMGDIFESLAGAIYMDSGMSLETVWQVYY PMMRPLIEKFSANVP  
 RSPVRELLEMEPETAKFSPAERT YDGKVRVTVEVVGKGKFKGVGRSYRIAKSAAAR  
 RALRS LKANQPQVPNS

**Sequence**  
**Similarities**

Belongs to the helicase family. Dicer subfamily. Contains 1 Dicer dsRNA-binding fold domain. Contains 1 DRBM (double-stranded RNA-binding) domain. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal domain. Contains 1 PAZ domain. Contains 2 R

## GENE INFORMATION

**Gene Name** [DICER1 dicer 1, ribonuclease type III \[ Homo sapiens \]](#)

**Official Symbol** [DICER1](#)

**Synonyms** DICER1; dicer 1, ribonuclease type III; Dicer1, Dcr 1 homolog (Drosophila); endoribonuclease Dicer; Dicer; dicer 1; double stranded RNA specific endoribonuclease; HERNA; K12H4.8 LIKE; KIAA0928;

**Gene ID** [23405](#)

**mRNA Refseq** [NM\\_001195573](#)

**Protein Refseq** [NP\\_001182502](#)

**MIM** [606241](#)

**Uniprot ID** [Q9UPY3](#)

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|                            |                                                                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 14q32.2                                                                                                                                                       |
| <b>Pathway</b>             | MicroRNA (miRNA) Biogenesis, organism-specific biosystem; Regulatory RNA pathways, organism-specific biosystem; mRNA processing, organism-specific biosystem; |
| <b>Function</b>            | ATP binding; ATP-dependent helicase activity; double-stranded RNA binding; endonuclease activity; helicase activity;                                          |

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