

Recombinant Human DICER1, His-tagged

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

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1566-1922 of Human Dicer with N terminal His tag; Predicted MWt 42 kDa.
Species	Human
Source	E.coli
ProteinLength	1566-1922 a.a.
Description	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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 141 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino	LLGCYLTSCGERAAQLFLCSLGLKVLPIKRTDREKALCP 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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Chromosome Location	14q32.2
Pathway	MicroRNA (miRNA) Biogenesis, organism-specific biosystem; Regulatory RNA pathways, organism-specific biosystem; mRNA processing, organism-specific biosystem;
Function	ATP binding; ATP-dependent helicase activity; double-stranded RNA binding; endonuclease activity; helicase activity;

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