

Recombinant Human dicer 1, ribonuclease type III Protein, His tagged

Cat. No. DICER1-104H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PPID protein (Q9UPY3) (Glu 755-Leu 1065) with a His tag at the C-terminus was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	755-1065aa
Description	Double-stranded RNA (dsRNA) endoribonuclease playing a central role in short dsRNA-mediated post-transcriptional gene silencing. Cleaves naturally occurring long dsRNAs and short hairpin pre-microRNAs (miRNA) into fragments of twenty-one to twenty-three nucleotides with 3' overhang of two nucleotides, producing respectively short interfering RNAs (siRNA) and mature microRNAs. SiRNAs and miRNAs serve as guide to direct the RNA-induced silencing complex (RISC) to complementary RNAs to degrade them or prevent their translation. Gene silencing mediated by siRNAs, also called RNA interference, controls the elimination of transcripts from mobile and repetitive DNA elements of the genome but also the degradation of exogenous RNA of viral origin for instance. The miRNA pathway on the other side is a mean to specifically regulate the expression of target genes.
Tag	C-His
Molecular Mass	37.8 kDa

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Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

GENE INFORMATION

Gene Name	DICER1 dicer 1, ribonuclease type III [Homo sapiens (human)]
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; K12H4.8-LIKE; helicase MOI; helicase-moi; Dicer1, Dcr-1 homolog; helicase with RNase motif; dicer 1, double-stranded RNA-specific endoribonuclease; DCR1; MNG1;
Gene ID	23405
mRNA Refseq	NM_001195573
Protein Refseq	NP_001182502

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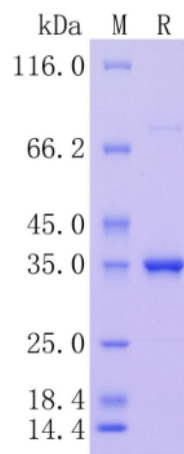
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MIM 606241

UniProt ID Q9UPY3

**Protein on SDS-
PAGE under
reducing (R)
condition.**



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