

Recombinant Human DROSHA protein, His-tagged

Cat. No. DROSHA-7909H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DROSHA aa. (Ile1114~Glu1235) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ile1114~Glu1235
Description	This gene encodes a ribonuclease (RNase) III double-stranded RNA-specific ribonuclease and subunit of the microprocessor protein complex, which catalyzes the initial processing step of microRNA (miRNA) synthesis. The encoded protein cleaves the stem loop structure from the primary microRNA (pri-miRNA) in the nucleus, yielding the precursor miRNA (pre-miRNA), which is then exported to the cytoplasm for further processing. In a human cell line lacking a functional copy of this gene, canonical miRNA synthesis is reduced. Somatic mutations in this gene have been observed in human patients with kidney cancer.
Form	Freeze-dried powder
Molecular Mass	15kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>98%

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Characteristic	The isoelectric point is 6.9.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Reporter Assays; Purification; Amine Reactive Labeling
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	DROSHA drosha ribonuclease III [Homo sapiens (human)]
Official Symbol	DROSHA
Synonyms	DROSHA; drosha ribonuclease III; RN3; ETOHI2; RNASEN; RANSE3L; RNASE3L; HSA242976; ribonuclease 3; RNase III; drosha, double-stranded RNA-specific

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endoribonuclease; nuclear RNase III Drosha; p241; putative protein p241 which interacts with transcription factor Sp1; putative ribonuclease III; ribonuclease type III, nuclear

Gene ID	29102
mRNA Refseq	NM_001100412.1
Protein Refseq	NP_001093882.1
UniProt ID	Q9NRR4

SDS-PAGE

