



Human DROSHA peptide (DAG-P0450)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Members of the ribonuclease III superfamily of double-stranded (ds) RNA-specific endoribonucleases participate in diverse RNA maturation and decay pathways in eukaryotic and prokaryotic cells (Fortin et al., 2002 [PubMed 12191433]). The RNase III Drosha is the core nuclease that executes the initiation step of microRNA (miRNA) processing in the nucleus (Lee et al., 2003 [PubMed 14508493]).[supplied by OMIM, Mar 2008]
Specificity	Ubiquitous.
Conjugate	Unconjugated
Sequence Similarities	Contains 1 DRBM (double-stranded RNA-binding) domain.Contains 2 RNase III domains.
Format	Liquid
Buffer	Information available upon request.
Preservative	None
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	DROSHA drosha, ribonuclease type III [Homo sapiens (human)]
Official Symbol	DROSHA
Synonyms	DROSHA; drosha, ribonuclease type III; RN3; ETOHI2; RNASEN; RANSE3L; RNASE3L; HSA242976; ribonuclease 3; p241; RNase III; protein Drosha; nuclear RNase III Drosha; putative ribonuclease III; ribonuclease III, nuclear; ribonuclease type III, nuclear; drosha, double-stranded RNA-specific endoribonuclease; putative protein p241 which interacts with

transcription factor Sp1;

Entrez Gene ID	29102
mRNA Refseq	NM_001100412.1
Protein Refseq	NP_001093882.1
UniProt ID	Q9NRR4
Chromosome Location	5p13.3
Pathway	Direct p53 effectors, organism-specific biosystem; Gene Expression, organism-specific biosystem; MicroRNA (miRNA) Biogenesis, organism-specific biosystem; Proteoglycans in cancer, organism-specific biosystem; Proteoglycans in cancer, conserved biosystem; Regulatory RNA pathways, organism-specific biosystem; Ribosome biogenesis in eukaryotes, organism-specific biosystem; Ribosome biogenesis in eukaryotes, conserved biosystem;
Function	metal ion binding; poly(A) RNA binding; protein binding; ribonuclease III activity;