Recombinant Human ERI1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ERI1-3313H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ERI1 MS Standard C13 and N15-labeled recombinant protein (NP_699163) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	RNA exonuclease that binds to the 3'-end of histone mRNAs and degrades them, suggesting that it plays an essential role in histone mRNA decay after replication. A 2' and 3'-hydroxyl groups at the last nucleotide of the histone 3'-end is required for efficient degradation of RNA substrates. Also able to degrade the 3'-overhangs of short interfering RNAs (siRNAs) in vitro, suggesting a possible role as regulator of RNA interference (RNAi). Requires for binding the 5'-ACCCA-3' sequence present in stem-loop structure. Able to bind other mRNAs. Required for 5.8S rRNA 3'-end processing. Also binds to 5.8s ribosomal RNA. Binds with high affinity to the stem-loop structure of replication-dependent histone pre-mRNAs.
Molecular Mass	40.1 kDa
AA Sequence	MEDPQSKEPAGEAVALALLESPRPEGGEEPPRPSPEETQQCKFDGQETKGSKFITS SASDFSDPVYKEIAITNGCINRMSKEELRAKLSEFKLETRGVKDVLKKRLKNYYKKQK LMLKESNFADSYYDYICIIDFEATCEEGNPPEFVHEIIEFPVVLLNTHTLEIEDTFQQYV RPEINTQLSDFCISLTGITQDQVDRADTFPQVLKKVIDWMKLKELGTKYKYSLLTDGS

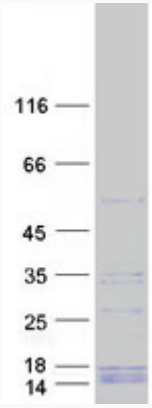
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	WDMSKFLNIQCQLSRLKYPPFAKKWINIRKSYGNFYKVPRSQTKLTIMLEKLGMDYD GRPHCGLDDSKNIARIAVRMLQDGCELRINEKMHAGQLMSVSSSLPIEGTPPPQMP HFRKTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	ERI1 exoribonuclease 1 [Homo sapiens (human)]
Official Symbol	ERI1
Synonyms	ERI1; exoribonuclease 1; THEX1, three prime histone mRNA exonuclease 1; 3-5 exoribonuclease 1; 3HEXO; enhanced RNAi three prime mRNA exonuclease homolog 1 (C.elegans); Eri-1 homolog; protein 3hExo; 3 exoribonuclease; 3-5 exonuclease ERI1; histone mRNA 3-exonuclease 1; three prime mRNA exonuclease 1; three prime histone mRNA exonuclease 1; histone mRNA 3 end-specific exonuclease; histone mRNA 3-end-specific exoribonuclease; enhanced RNAi three prime mRNA exonuclease homolog 1; HEXO; THEX1; MGC35395;
Gene ID	90459

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mRNA Refseq	NM_153332
Protein Refseq	NP_699163
MIM	608739
UniProt ID	Q8IV48
SDS-PAGE	

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