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Product datasheet for PH306777

HEXO (ERI1) (NM_153332) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ERI1 MS Standard C13 and N15-labeled recombinant protein (NP_699163)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206777
Predicted MW:	40.1 kDa
Protein Sequence:	>RC206777 protein sequence Red=Cloning site Green=Tags(s) MEDPQSKEPAGEAVALALLESPRPEGGEEPPRPSPEETQQCKFDGQETKGSKFITSSASDFSDPVYKEIA ITNGCINRMSKEELRAKLSEFKLETRGVKDVLKKRLKNYYKKQKLMLKESNFADSYYDYICIIDFEATCE EGNPPEFVHEIIEFPVVLLNTHTLEIEDTFQQYVRPEINTQLSDFCISLTGITQDQVDRADTFPQVLKKV IDWMKLKELGTKYKYSLLTDGSWDMSKFLNIQCQLSRLKYPPFAKKWINIRKSYGNFYKVPRSQTKLTIM LEKLGMDYDGRPHCGLDDSKNIARIAVRMLQDGCELRINEKMHAGQLMSVSSSLPIEGTPPPQMPHFRK TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_699163
RefSeq Size:	4615
RefSeq ORF:	1047
Synonyms:	3'HEXO; HEXO; THEX1
Locus ID:	90459

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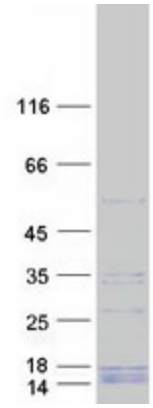
UniProt ID: Q8IV48, A0A024R355

Cytogenetics: 8p23.1

Summary: 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.[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified ERI1 protein (Cat# [TP306777]). The protein was produced from HEK293T cells transfected with ERI1 cDNA clone (Cat# [RC206777]) using MegaTran 2.0 (Cat# [TT210002]).