Recombinant Human EXD1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. EXD1-5175H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	EXD1 MS Standard C13 and N15-labeled recombinant protein (NP_689809) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	RNA-binding component of the PET complex, a multiprotein complex required for the processing of piRNAs during spermatogenesis. The piRNA metabolic process mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposable elements, preventing their mobilization, which is essential for the germline integrity. The PET complex is required during the secondary piRNAs metabolic process for the PIWIL2 slicing-triggered loading of PIWIL4 piRNAs. In the PET complex, EXD1 probably acts as an RNA adapter. EXD1 is an inactive exonuclease.
Molecular Mass	58.3 kDa
AA Sequence	MEDSEFLAYVELLDEVEQGSVRAKASSVSLHAERTWMEKMKVEDLNVCEPASPAP EAPATSLLNDLKYSPSEEEEVTYTVINQFQQKFGAAILHIKKQNVLSVAAEGANVCRH GKLCWLQVATNCRVYLFDIFLLGSRAFHNGLQMILEDKRILKVIHDCRWLSDCLSHQ YGILLNNVFDTQVADVLQFSMETGGYLPNCITTLQESLIKHLQVAPKYLSFLEKRQKLI

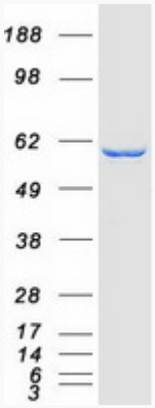
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	QENPEVWFIRPVSPSLLKILALEATYLLPLRLALLDEMMSDLTTLVDGYLNTYREGSA DRLGGTEPTCMELPEELLQLKDFQKQRREKAAREYRVNAQGLLIRTVLQPKKLVTET AGKEEKVKGFLFGKNFRIDKAPSFTSQDFHGDVNLLKEESLNKQATNPQHLPPTEE GETSEDSSNKLICTKSKGSEDQRITQKEHFMTPKHEFQASLSLKEETEQLLMVENKE DLKCTKQAVSMSSFPQETRVSPSDTFYPIRKTVVSTLPPCPALEKIDSWISPFLNLPT RTRPLEQKLISEEDLAANDILDYKDDDDKV
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	EXD1 exonuclease 3-5 domain containing 1 [Homo sapiens (human)]
Official Symbol	EXD1
Synonyms	EXD1; exonuclease 3-5 domain containing 1; EXDL1, exonuclease 3 5 domain like 1; exonuclease 3-5 domain-containing protein 1; MGC33637; exonuclease 3-5 domain-like 1; exonuclease 3-5 domain-like-containing protein 1; EXDL1;
Gene ID	161829
mRNA Refseq	NM_152596

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Protein Refseq	NP_689809
UniProt ID	Q8NHP7
SDS-PAGE	

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