

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	MEDSEFLAYVELLDEVEQGSVRKASSVSLHAERTWMEKMKVEDLNVCEPASPAP EAPATSLNDLKYSPEEEEEVTYTVINQFQQKFGAAILHIKKQNVLSVAAEGANVCRH GKLCWLQVATNCRVYLFDIFLLGSRAFHNGLQMILEDKRILKVIHDCRWLSDCLSHQ YGILLNNVFDQTQVADVLQFSMETGGYLPNCITTLQESLIKHLQVAPKYLSFLEKRQKLI

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QENPEVWFIRPVSPSLLKILALEATYLLPLRLALLDEMMSDLTTLVDGYLNTYREGSA
 DRLGGTEPTCMELPEELLQLKDFQKQRREKAAREYRVNAQGLLIRTVLQPKKLVET
 AGKEEKVKGFLFGKNFRIDKAPSFTSQDFHGDVNLLKEESLNKQATNPQHLPPTTE
 GETSEDSSNKLICTKSKGSEDQRITQKEHFMTPKHEFQASLSLKEETEQLLMVENKE
 DLKCTKQAVSMSSFPQETRVSPSDFYPIRKTVVSTLPPCPALEKIDSWISPFLNLPT
 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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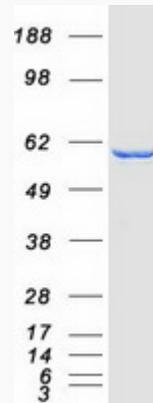
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Protein Refseq NP_689809

UniProt ID Q8NHP7

SDS-PAGE



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