

Recombinant Mouse Exd1 Protein, Myc/DDK-tagged

Cat. No. Exd1-2884M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length exonuclease 3'-5' domain containing 1 (Exd1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
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	64 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration	>50 µg/mL as determined by microplate BCA method
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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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GENE INFORMATION

Gene Name	Exd1 exonuclease 3'-5' domain containing 1 [Mus musculus (house mouse)]
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Official Symbol	Exd1
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Synonyms	EXD1; exonuclease 3-5 domain containing 1; exonuclease 3-5 domain-containing protein 1; exonuclease 3-5 domain-like 1; Vexonuclease 3-5 domain-like 1; exonuclease 3-5 domain-like-containing protein 1; Exdl1; 4932702D22Rik
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Gene ID	241624
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mRNA Refseq	NM_172857
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Protein Refseq	NP_766445
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UniProt ID	Q8CDF7
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