

Datasheet for ABIN7564541
EXD1 Protein (AA 1-570) (His tag)



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Overview

Quantity:	1 mg
Target:	EXD1
Protein Characteristics:	AA 1-570
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EXD1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Exd1 Protein expressed in mammalian cells.
Sequence:	<p>MDPSSDYHFL NQILWRRVKL TLVSGIFEGV LQHVPNKIV VLKNVRNAES GRSVPGVKVF FGHEILNVEL MDEAEGASGE KASAVSINTE RAGMEKVKNE DVNVCEPASP APEVPTSSLL SDLKYCPSEE EEVITYVIDQ FQQKFGAAML HIKKQSVLSV AAEGANVCRH GKLCWLQVAT NSRVYLFDF LLSRAFNNG LQMILEDKRI LKVIHDCRWL SDCLSHQYGI MLNNVFDTQV ADVLQFSMET GGFLPNCIST LQESLIRHLK VAPRYLFFLE ERQKRIQENP EIWLTRPLPP SLLKILALET TYLLPLRLVL LDEVMSDLTT LVDGYLNTYR EGSADRLAGT EPACMELPAE LLQLQDFQKQ RRERAVKEYR VNARGLLIRT PLHPKEPTAC TAGKEERVQG FLFYKTDGGD QVPRFLCPKS HEDEKFLDKE SKQTTAKSQI VPPRKEGEAH KDSKNKPGCW ESAGPEDPRA QKAHALPPTW ASQSQFSLKE EIEQLTVVGN KGALTSPKEG ALVSPSLLQE TWEAPTDTFH LPEKAEVSTL PPCPALEKTD SWISPSLNLF</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please</p>

contact us.

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: EXD1

Alternative Name: Exd1 ([EXD1 Products](#))

Background: PiRNA biogenesis protein EXD1 (Exonuclease 3'-5' domain-containing protein 1) (Exonuclease 3'-5' domain-like-containing protein 1) (Inactive exonuclease EXD1) (mExd1),FUNCTION: 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 (PubMed:26669262). 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 (By similarity). {ECO:0000250|UniProtKB:H9IUR0,

Target Details

ECO:0000269|PubMed:26669262}.

Molecular Weight: 64.0 kDa

UniProt: [Q8CDF7](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months