

Datasheet for ABIN7554952
PIWIL3 Protein (AA 1-882) (His tag)



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Overview

Quantity:	1 mg
Target:	PIWIL3
Protein Characteristics:	AA 1-882
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIWIL3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant PIWIL3 Protein expressed in mammalian cells.
Sequence:	MPGRARTRAR GRARRRESYQ QEAPGGPRAP GSATTQEPPQ LQSTPRPLQE EVPVVRPLQP RAARGGAGGG AQSQGVKEPG PEAGLHTAPL QERRIGGVFQ DLVVNTRQDM KHKVDSKTGS EGTVVQLLAN HFRVISRPQW VAYKYNVDYK PDIEDGNLRT ILLDQHRRKF GERHIFDGNS LLLSRPLKER RVEWLSTTKD KNIVKITVEF SKELTPTSPD CLRYYNILFR RTFKLLDFEQ VGRNYYTKKK AIQLYRHGTS LEIWLGYVTS VLQYENSITL CADVSHKLLR IETAYDFIKR TSAQAQTGNI REEVTNKLIG SIVLTKYNNK TYRVDDIDWK QNPEDTFNKS DGSKITYIDY YRQQHKEIVT VKKQPLLVSQ GRWKKGLTGT QREPILLIPQ LCHMTGLTDE ICKDYSIVKE LAKHTRLSPR RRHHTLKEFI NTLQDNKKVR ELLQLWDLKF DTNFLSVPGR VLKNANIVQG RRMVKANSQG DWSREIRELP LLNAMPLHSW LILYSRSSHR EAMSLKGHLQ SVTAPMGITM KPAEMIEVDG DANSYIDTLR KYTRPTLQMG MSCLLVFKVI CILPNDDKRR YDSIKRYLCT KCPIPSQCVV KKTLEKVQAR TIVTKIAQQM NCKMGGALWK VETDVQRTMF VGIDCFHDIV NRQKSIAGFV ASTNAELTKW YSQCVIQKTG EELVKELEIC LKAALDVWCK NESSMPHSVI

Product Details

VYRDGVGDGQ LQALLDHEAK KMSTYLKTIS PNNFTLAFIV VKKRINTRFF LKHGSNFQNP
PPGTVIDVEL TRNEWYDFFI VSQSVQDGTV TPTHYNVIYD TIGLSPDTVQ RLTYCLCHMY
YNLPGIIRVP APCHYAHKLA YLVGQSIHQE PNRSLSTRLF YL **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 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: PIWIL3

Alternative Name: PIWIL3 ([PIWIL3 Products](#))

Background: Piwi-like protein 3,FUNCTION: May play a role during spermatogenesis by repressing transposable elements and preventing their mobilization, which is essential for the germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and govern the methylation and subsequent repression of transposons. Directly binds piRNAs, a

Target Details

class of 24 to 30 nucleotide RNAs that are generated by a Dicer-independent mechanism and are primarily derived from transposons and other repeated sequence elements. Besides their function in transposable elements repression, piRNAs are probably involved in other processes during meiosis such as translation regulation (By similarity).

{ECO:0000250|UniProtKB:Q9JMB7}.

Molecular Weight: 101.1 kDa

UniProt: [Q7Z3Z3](#)

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