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Datasheet for ABIN7558269

**Aprataxin Protein (APTX) (AA 1-342) (His tag)**

## Overview

Quantity:	1 mg
Target:	Aprataxin (APTX)
Protein Characteristics:	AA 1-342
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Aprataxin protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Aptx Protein expressed in mammalien cells.
Sequence:	MPEAVAKMRV CWLVRQDSRH QRIKLPHEA VVIGRSPETK ITDKKCSRQQ VQLKAECNKG YVKVQQMGVN PTSIDSGVIG KDQEKLLPG QVLHVMVNGLY PYIVEFEEVA ESPNLTQRKR KRSDCDSEEM EAESGTGLAP GSSPSQCSVS PPKDKNGATK KESLGHWSQG LKMSMKDPKM QVYKDDQVVV IKDKYPKARH HWLVLPWASI SSLKVVTSEH LELLKHMHAV GEKVIADFAG SSKLRFRGLY HAIPSMHSHVH LHVISQDFDS PCLKNKKHWN SFNTEYFLES QAVIKMVQEA GRVTVKDGTGTC ELLKLPLRCH ECQQLLPSIP QLKEHLRKHWH GG <b>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.</b>
Characteristics:	Key Benefits:

## Product Details

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- 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.

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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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## Target Details

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Target:	Aprataxin (APTX)
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Alternative Name:	Aptx ( <a href="#">APTX Products</a> )
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Background:	Aprataxin (EC 3.6.1.71) (EC 3.6.1.72) (Forkhead-associated domain histidine triad-like protein) (FHA-HIT),FUNCTION: DNA-binding protein involved in single-strand DNA break repair, double-strand DNA break repair and base excision repair. Resolves abortive DNA ligation intermediates formed either at base excision sites, or when DNA ligases attempt to repair non-ligatable breaks induced by reactive oxygen species. Catalyzes the release of adenylate groups covalently linked to 5'-phosphate termini, resulting in the production of 5'-phosphate termini that can be efficiently rejoined (PubMed:16964241). Also able to hydrolyze adenosine 5'-monophosphoramidate (AMP-NH(2)) and diadenosine tetraphosphate (AppppA), but with lower catalytic activity (By similarity). Likewise, catalyzes the release of 3'-linked guanosine (DNAppG) and inosine (DNAppI) from DNA, but has higher specific activity with 5'-linked adenosine (AppDNA) (By similarity). {ECO:0000250 UniProtKB:O74859, ECO:0000250 UniProtKB:Q7Z2E3, ECO:0000269 PubMed:16964241}.
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Molecular Weight:	38.7 kDa
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UniProt:	<a href="#">Q7TQC5</a>
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## Target Details

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Pathways: [DNA Damage Repair, Chromatin Binding](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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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