Datasheet for ABIN7547361

Endonuclease V Protein (ENDOV) (AA 1-282) (His tag)

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Overview

Quantity:	1 mg
Target:	Endonuclease V (ENDOV)
Protein Characteristics:	AA 1-282
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Endonuclease V protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ENDOV Protein expressed in mammalian cells.
Sequence:	MALEAAGGPP EETLSLWKRE QARLKAHVVD RDTEAWQRDP AFSGLQRVGG VDVSFVKGDS VRACASLVVL SFPELEVVYE ESRMVSLTAP YVSGFLAFRE VPFLLELVQQ LREKEPGLMP QVLLVDGNGV LHHRGFGVAC HLGVLTDLPC VGVAKKLLQV DGLENNALHK EKIRLLQTRG DSFPLLGDSG TVLGMALRSH DRSTRPLYIS VGHRMSLEAA VRLTCCCCRF RIPEPVRQAD ICSREHIRKS LGLPGPPTPR SPKAQRPVAC PKGDSGESSA LC **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:

Product Details

- 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:	Endonuclease V (ENDOV)
Alternative Name:	ENDOV (ENDOV Products)
Background:	Endonuclease V (hEndoV) (EC 3.1.26.-) (Inosine-specific endoribonuclease),FUNCTION: [Isoform 1]: Endoribonuclease that specifically cleaves inosine-containing RNAs: cleaves RNA at the second phosphodiester bond 3' to inosine (PubMed:23912683, PubMed:23912718, PubMed:27573237, PubMed:31703097, PubMed:25195743). Active against both single-stranded and double-stranded RNAs (PubMed:31703097, PubMed:25195743). Has strong preference for single-stranded RNAs (ssRNAs) toward double-stranded RNAs (dsRNAs) (PubMed:23912718). Cleaves mRNAs and tRNAs containing inosine (PubMed:23912683, PubMed:31703097). Also able to cleave structure-specific dsRNA substrates containing the specific sites 5'-IIUI-3' and 5'-UIUU-3' (PubMed:23912718, PubMed:27573237). Inosine is present in a number of RNAs following editing, the function of inosine-specific endoribonuclease is still unclear: it could either play a regulatory role in edited RNAs, or be involved in antiviral response by removing the hyperedited long viral dsRNA genome that has undergone A-to-I editing (Probable). Binds branched DNA structures (PubMed:23139746). {ECO:0000269|PubMed:23139746, ECO:0000269|PubMed:23912683,

Target Details

	ECO:0000269|PubMed:23912718, ECO:0000269|PubMed:25195743, ECO:0000269|PubMed:27573237, ECO:0000269|PubMed:31703097, ECO:0000305}., FUNCTION: [Isoform 6]: Endoribonuclease that specifically cleaves inosine-containing RNAs: cleaves RNA at the second phosphodiester bond 3' to inosine (PubMed:31703097). Active against both single-stranded and double-stranded RNAs (PubMed:31703097). Cleaves tRNAs containing inosine (PubMed:31703097). {ECO:0000269|PubMed:31703097}., FUNCTION: [Isoform 7]: Endoribonuclease that specifically cleaves inosine-containing RNAs: cleaves RNA at the second phosphodiester bond 3' to inosine (PubMed:31703097). Active against both single-stranded and double-stranded RNAs (PubMed:31703097). Cleaves tRNAs containing inosine (PubMed:31703097). {ECO:0000269|PubMed:31703097}.
Molecular Weight:	30.8 kDa
UniProt:	Q8N8Q3

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

