

Datasheet for ABIN7555451
TSEN2 Protein (AA 1-465) (His tag)



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Overview

Quantity:	1 mg
Target:	TSEN2
Protein Characteristics:	AA 1-465
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TSEN2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TSEN2 Protein expressed in mammalian cells.
Sequence:	<p>MAEAVFHAPK RKRRVYETYE SPLPIPGQD HGPLKEFKIF RAEMINNNVI VRNAEDIEQL YGKGYFGKGI LRSRPSFTI SDPKLVAKWK DMKTNMPIIT SKRYQHSVEW AAELMRRQGQ DESTVRRILK DYTUPLEHPP VKRNEEAQVH DKLNSGMVSN MEGTAGGERP SVNGDSGKS GGVGDPREPL GCLQEGSGCH PTTESFEKSV REDASPLPHV CCKQDALIL QRGLHHEDGS QHIGLLHPGD RGPDHEYVLV EEAECAMSER EAAPNEELVQ RNRLICRRNP YRIFEYLQLS LEEAFLLVYA LGCLSIYYEK EPLTIVKLWK AFTVVQPTFR TTYMAYHYFR SKGWVPKVGL KYGTDLLLYR KGPPFYHASY SVIIELVDDH FEGSLRRPLS WKSLAALSRV SVNVSKEMLL CYLIKPSTMT DKEMESPECM KRIKVQEVIL SRWVSSRERS DQDDL 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.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

Product Details

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:

TSEN2

Alternative Name:

TSEN2 ([TSEN2 Products](#))

Background:

TRNA-splicing endonuclease subunit Sen2 (EC 4.6.1.16) (tRNA-intron endonuclease Sen2) (HsSen2),FUNCTION: Constitutes one of the two catalytic subunit of the tRNA-splicing endonuclease complex, a complex responsible for identification and cleavage of the splice sites in pre-tRNA. It cleaves pre-tRNA at the 5'- and 3'-splice sites to release the intron. The products are an intron and two tRNA half-molecules bearing 2',3'-cyclic phosphate and 5'-OH termini. There are no conserved sequences at the splice sites, but the intron is invariably located at the same site in the gene, placing the splice sites an invariant distance from the constant structural features of the tRNA body. Isoform 1 probably carries the active site for 5'-splice site cleavage. The tRNA splicing endonuclease is also involved in mRNA processing via its association with pre-mRNA 3'-end processing factors, establishing a link between pre-tRNA splicing and pre-mRNA 3'-end formation, suggesting that the endonuclease subunits function in multiple RNA-processing events. Isoform 2 is responsible for processing a yet unknown RNA substrate. The

Target Details

complex containing isoform 2 is not able to cleave pre-tRNAs properly, although it retains endonucleolytic activity. {ECO:0000269|PubMed:15109492}.

Molecular Weight: 53.2 kDa

UniProt: [Q8NCE0](#)

Pathways: [Nuclear Receptor Transcription Pathway](#), [Regulation of Lipid Metabolism by PPARalpha](#)

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