

TRUB2 Blocking Peptide (Center)
Synthetic peptide
Catalog # BP20247c**Specification**

TRUB2 Blocking Peptide (Center) - Product Information

Primary Accession [O95900](#)
Other Accession [NP_056494.1](#)

TRUB2 Blocking Peptide (Center) - Additional Information

Gene ID 26995

Other Names

Probable tRNA pseudouridine synthase 2, 5499-, TRUB2

Target/Specificity

The synthetic peptide sequence is selected from aa 131-144 of HUMAN TRUB2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TRUB2 Blocking Peptide (Center) - Protein Information

Name TRUB2 {ECO:0000303|PubMed:12736709, ECO:0000312|HGNC:HGNC:17170}

Function

Minor enzyme contributing to the isomerization of uridine to pseudouridine (pseudouridylation) of specific mitochondrial mRNAs (mt- mRNAs) such as COXI and COXIII mt-mRNAs (PubMed:27974379, PubMed:31477916). As a component of a functional protein-RNA module, consisting of RCC1L, NGRN, RPU5D3, RPU5D4, TRUB2, FASTKD2 and 16S mitochondrial ribosomal RNA (16S mt-rRNA), controls 16S mt-rRNA abundance and is required for intra-mitochondrial translation (PubMed:27667664). Also catalyzes pseudouridylation of some tRNAs, including synthesis of pseudouridine(55) from uracil-55, in the psi GC loop of a subset of tRNAs (PubMed:33023933).

Cellular Location

Mitochondrion matrix Note=Localizes to mitochondrial RNA granules, platforms for post-

transcriptional RNA modification and ribosome assembly

TRUB2 Blocking Peptide (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

TRUB2 Blocking Peptide (Center) - Images

TRUB2 Blocking Peptide (Center) - Background

Pseudouridine is an abundant component of rRNAs and tRNAs and is enzymatically generated by isomerization of uridine by pseudouridine synthase (Zucchini et al., 2003 [PubMed 12736709]).

TRUB2 Blocking Peptide (Center) - References

Humphray, S.J., et al. Nature 429(6990):369-374(2004)
Zucchini, C., et al. Int. J. Mol. Med. 11(6):697-704(2003)