

TTPA Blocking Peptide (Center)
Synthetic peptide
Catalog # BP20030c**Specification**

TTPA Blocking Peptide (Center) - Product Information

Primary Accession [P49638](#)
Other Accession [P41034](#), [Q8BWP5](#), [NP_000361.1](#)

TTPA Blocking Peptide (Center) - Additional Information

Gene ID 7274

Other Names

Alpha-tocopherol transfer protein, Alpha-TTP, TTPA, TPP1

Target/Specificity

The synthetic peptide sequence is selected from aa 97-108 of HUMAN TTPA

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.

TTPA Blocking Peptide (Center) - Protein Information

Name TTPA

Synonyms TPP1

Function

Binds alpha-tocopherol, enhances its transfer between separate membranes, and stimulates its release from liver cells (PubMed:7887897). Binds both phosphatidylinositol 3,4-bisphosphate and phosphatidylinositol 4,5-bisphosphate; the resulting conformation change is important for the release of the bound alpha-tocopherol (By similarity).

Cellular Location

Cytoplasm.

TTPA Blocking Peptide (Center) - Protocols

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

- [Blocking Peptides](#)

TTPA Blocking Peptide (Center) - Images

TTPA Blocking Peptide (Center) - Background

This gene encodes a soluble protein that binds alpha-tocopherol, a form of vitamin E, with high selectivity and affinity. This protein plays an important role in regulating vitamin E levels in the body by transporting vitamin E between membrane vesicles and facilitating the secretion of vitamin E from hepatocytes to circulating lipoproteins. Mutations in this gene cause hereditary vitamin E deficiency (ataxia with vitamin E deficiency, AVED) and retinitis pigmentosa.

TTPA Blocking Peptide (Center) - References

Zhang, W.X., et al. Lipids 44(7):631-641(2009)
Wright, M.E., et al. Cancer Res. 69(4):1429-1438(2009)
Fusco, C., et al. J. Child Neurol. 23(11):1328-1330(2008)
Rotzoll, D.E., et al. Eur. J. Obstet. Gynecol. Reprod. Biol. 140(2):183-191(2008)
Kara, B., et al. Turk. J. Pediatr. 50(5):471-475(2008)