

**GTDC1 Blocking Peptide (Center)**

Synthetic peptide

Catalog # BP20381c

**Specification**

---

**GTDC1 Blocking Peptide (Center) - Product Information**

Primary Accession

[Q4AE62](#)**GTDC1 Blocking Peptide (Center) - Additional Information**

Gene ID 79712

**Other Names**

Glycosyltransferase-like domain-containing protein 1, Mat-Xa, GTDC1

**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.

**GTDC1 Blocking Peptide (Center) - Protein Information****Name** GTDC1 {ECO:0000303|PubMed:15068588, ECO:0000312|HGNC:HGNC:20887}**Function**

Glycosyltransferase that specifically catalyzes mannosylation of cytoplasmic tRNA(Asp) modified with queuosine at position 34 (queuosine(34)) (PubMed:<a href="http://www.uniprot.org/citations/37992713" target="\_blank">37992713</a>). Mannosylates the cyclopentene moiety of queuosine(34) in tRNA(Asp) to form mannosyl-queuosine(34) (PubMed:<a href="http://www.uniprot.org/citations/37992713" target="\_blank">37992713</a>). Mannosylation of queuosine(34) in tRNA(Asp) is required to slow-down elongation at cognate codons, GAC and GAU, thereby regulating protein translation (PubMed:<a href="http://www.uniprot.org/citations/37992713" target="\_blank">37992713</a>).

**Cellular Location**

Cytoplasm. Nucleus

**Tissue Location**

Ubiquitous. Expressed at high levels in the lung, brain, spleen, testis, placenta. ovary, pancreas, spleen and peripheral blood leukocytes. Expressed at low level in the colon, small intestine, kidney, skeletal muscle and thymus. Expressed at high level in colon adenocarcinoma.

## **GTDC1 Blocking Peptide (Center) - Protocols**

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

- [Blocking Peptides](#)

## **GTDC1 Blocking Peptide (Center) - Images**

## **GTDC1 Blocking Peptide (Center) - Background**

The function of GTDC1 (glycosyltransferase like domain containing 1) remains unknown.