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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:37992713). Mannosylates the cyclopentene moiety of queuosine(34) in tRNA(Asp) to form mannosyl-queuosine(34) (PubMed:37992713). Mannosylation of queuosine(34) in tRNA(Asp) is required to slow-down elongation at cognate codons, GAC and GAU, thereby regulating protein translation (PubMed:37992713).

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.

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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.