

PET112 Blocking Peptide (N-term)
Synthetic peptide
Catalog # BP20796a**Specification**

PET112 Blocking Peptide (N-term) - Product InformationPrimary Accession [O75879](#)**PET112 Blocking Peptide (N-term) - Additional Information****Gene ID** 5188**Other Names**

Glutamyl-tRNA(Gln) amidotransferase subunit B, mitochondrial
{ECO:0000255|HAMAP-Rule:MF_03147}, Glu-AdT subunit B
{ECO:0000255|HAMAP-Rule:MF_03147}, 635- {ECO:0000255|HAMAP-Rule:MF_03147},
Cytochrome c oxidase assembly factor PET112 homolog, GATB

Target/Specificity

The synthetic peptide sequence is selected from aa 25-40 of HUMAN GATB

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.

PET112 Blocking Peptide (N-term) - Protein Information**Name** GATB {ECO:0000255|HAMAP-Rule:MF_03147, ECO:0000312|HGNC:HGNC:8849}**Function**

Allows the formation of correctly charged Gln-tRNA(Gln) through the transamidation of misacylated Glu-tRNA(Gln) in the mitochondria. The reaction takes place in the presence of glutamine and ATP through an activated gamma-phospho-Glu-tRNA(Gln).

Cellular Location

Mitochondrion {ECO:0000255|HAMAP-Rule:MF_03147, ECO:0000269|PubMed:9878253}

Tissue Location

Predominantly expressed in tissues characterized by high rates of oxidative phosphorylation (OxPhos), including muscle and heart.

PET112 Blocking Peptide (N-term) - Protocols

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

- [Blocking Peptides](#)

PET112 Blocking Peptide (N-term) - Images**PET112 Blocking Peptide (N-term) - Background**

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PET112 Blocking Peptide (N-term) - References

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Zhang Q.-H.,et al.Genome Res. 10:1546-1560(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
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Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.