

ATP5D Blocking Peptide (C-term)

Synthetic peptide

Catalog # BP20890c

Specification

ATP5D Blocking Peptide (C-term) - Product Information

Primary Accession

[P30049](#)

Other Accession

[P35434](#), [Q9D3D9](#), [P05630](#)**ATP5D Blocking Peptide (C-term) - Additional Information****Gene ID** 513**Other Names**

ATP synthase subunit delta, mitochondrial, F-ATPase delta subunit, ATP5D

Target/Specificity

The synthetic peptide sequence is selected from aa 156-168 of HUMAN ATP5D

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.

ATP5D Blocking Peptide (C-term) - Protein Information**Name** ATP5F1D ([HGNC:837](#))**Function**

Mitochondrial membrane ATP synthase (F(1)F(0) ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain (PubMed:29478781). F-type ATPases consist of two structural domains, F(1) - containing the extramembraneous catalytic core, and F(0) - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP turnover in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Part of the complex F(1) domain and of the central stalk which is part of the complex rotary element. Rotation of the central stalk against the surrounding alpha(3)beta(3) subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits (PubMed:1531933).

Cellular Location

Mitochondrion. Mitochondrion inner membrane.

ATP5D Blocking Peptide (C-term) - Protocols

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

- [Blocking Peptides](#)

ATP5D Blocking Peptide (C-term) - Images

ATP5D Blocking Peptide (C-term) - Background

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ATP5D Blocking Peptide (C-term) - References

Jordan E.M.,et al.Biochim. Biophys. Acta 1130:123-126(1992).
Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Grimwood J.,et al.Nature 428:529-535(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Hochstrasser D.F.,et al.Electrophoresis 13:992-1001(1992).