

Datasheet for ABIN7479168

**ATP5F1D Protein (AA 43-161, partial) (GST tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	100 µg
Target:	ATP5F1D
Protein Characteristics:	AA 43-161, partial
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP5F1D protein is labelled with GST tag.
Application:	ELISA

## Product Details

Sequence:	ASPTQVFFNG ANVRQVDVPT LTGAFGILAA HVPTLQVLRP GLVVVHAEDG TTSKYFVSSG SIAVNADSSV QLLAEEAVTL DMLDLGAAKA NLEKAQAELV GTADEATRAE IQIRIEANE
Characteristics:	Please inquire if you are interested in this recombinant protein expressed in E. coli, mammalian cells or by baculovirus infection. Be aware about differences in price and lead time.
Purity:	95 %

## Target Details

Target:	ATP5F1D
Alternative Name:	ATP synthase subunit delta, mitochondrial protein ( <a href="#">ATP5F1D Products</a> )
Background:	Mitochondrial membrane ATP synthase (F1F0 ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron

## Target Details

transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F1 - containing the extramembraneous catalytic core, and F0 - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP turnover in the catalytic domain of F1 is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Part of the complex F1 domain and of the central stalk which is part of the complex rotary element. Rotation of the central stalk against the surrounding alpha3beta3 subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits.

Molecular Weight: 39.8 kD

UniProt: [P30049](#)

Pathways: [Proton Transport](#), [Ribonucleoside Biosynthetic Process](#)

## Application Details

Comment: The yeast protein expression system is the most economical and efficient eukaryotic system for secretion and intracellular expression. A protein expressed by the mammalian cell system is of very high-quality and close to the natural protein. But the low expression level, the high cost of medium and the culture conditions restrict the promotion of mammalian cell expression systems. The yeast protein expression system serve as a eukaryotic system integrate the advantages of the mammalian cell expression system. A protein expressed by yeast system could be modified such as glycosylation, acylation, phosphorylation and so on to ensure the native protein conformation. It can be used to produce protein material with high added value that is very close to the natural protein. Our proteins produced by yeast expression system has been used as raw materials for downstream preparation of monoclonal antibodies.

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Concentration: 0.2-2 mg/mL

Buffer: Tris-based buffer, 50 % glycerol

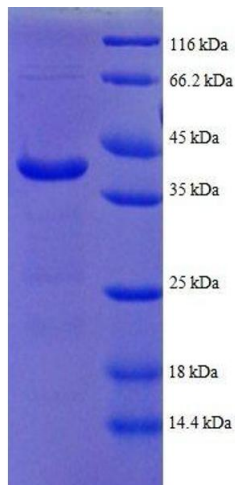
Handling Advice: Repeated freezing and thawing is not recommended. Store working aliquots at 4 °C for up to one week

Storage: -20 °C

## Handling

Storage Comment: Store at -20 °C for extended storage, conserve at -20 °C or -80 °C

## Images



### SDS-PAGE

**Image 1.** ATP Synthase, H<sup>+</sup> Transporting, Mitochondrial F1 Complex, delta Subunit (ATP5D) (AA 43-161), (partial) protein (GST tag)