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Datasheet for ABIN3078561

COX6B2 Protein (AA 1-88) (Strep Tag)



Overview

Quantity:	1 mg
Target:	COX6B2
Protein Characteristics:	AA 1-88
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This COX6B2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MLDVEAQEPP KGKWSTPPFD PRFPSQNQIR NCYQNFLDYH RCLKTRTRRG KSTQPCEYYF

RVYHSLCPIS WVESWNEQIK NGIFAGKI

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

Target:

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

COX6B2

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	 In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Target Details	

Target Details

Alternative Name:	COX6B2 (COX6B2 Products)
Background:	Cytochrome c oxidase subunit 6B2 (Cancer/testis antigen 59) (CT59) (Cytochrome c oxidase
	subunit VIb isoform 2) (COX VIb-2) (Cytochrome c oxidase subunit VIb, testis-specific
	isoform),FUNCTION: Component of the cytochrome c oxidase, the last enzyme in the
	mitochondrial electron transport chain which drives oxidative phosphorylation. The respiratory
	chain contains 3 multisubunit complexes succinate dehydrogenase (complex II, CII), ubiquinol-
	cytochrome c oxidoreductase (cytochrome b-c1 complex, complex III, CIII) and cytochrome c
	oxidase (complex IV, CIV), that cooperate to transfer electrons derived from NADH and
	succinate to molecular oxygen, creating an electrochemical gradient over the inner membrane
	that drives transmembrane transport and the ATP synthase. Cytochrome c oxidase is the
	component of the respiratory chain that catalyzes the reduction of oxygen to water. Electrons
	originating from reduced cytochrome c in the intermembrane space (IMS) are transferred via
	the dinuclear copper A center (CU(A)) of subunit 2 and heme A of subunit 1 to the active site in
	subunit 1, a binuclear center (BNC) formed by heme A3 and copper B (CU(B)). The BNC reduces
	molecular oxygen to 2 water molecules using 4 electrons from cytochrome c in the IMS and 4
	protons from the mitochondrial matrix. {ECO:0000250 UniProtKB:Q01519}.
Molecular Weight:	10.5 kDa
UniProt:	Q6YFQ2
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a
	guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce
	even the most difficult-to-express proteins, including those that require post-translational
	modifications.
	During lysate production, the cell wall and other cellular components that are not required for
	protein production are removed, leaving only the protein production machinery and the
	mitochondria to drive the reaction. During our lysate completion steps, the additional
	components needed for protein production (amino acids, cofactors, etc.) are added to produce
	something that functions like a cell, but without the constraints of a living system - all that's
	needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)