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COX6C Protein (AA 1-75) (Strep Tag)



Image



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Overview

Quantity:	1 mg
Target:	COX6C
Protein Characteristics:	AA 1-75
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This COX6C protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence: MAPEVLPKPR MRGLLARRLR NHMAVAFVLS LGVAALYKFR VADQRKKAYA DFYRNYDVMK

DFEEMRKAGI FQSVK

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).

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:

- 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®):
	1. 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)
Grade:	Crystallography grade

Target Details

Target:	COX6C
Alternative Name:	COX6C (COX6C Products)
Background:	Cytochrome c oxidase subunit 6C (Cytochrome c oxidase polypeptide VIc),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:P04038}.
Molecular Weight:	8.8 kDa
UniProt:	P09669
Pathways:	Proton Transport
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

Application Details

	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)

Images

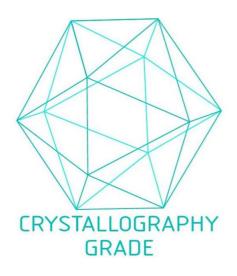


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process