

Recombinant Human COA4, His-tagged

Cat. No. COA4-223H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	COA4, 1-87a Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-87aa
Description	Cytochrome c oxidase assembly factor 4 homolog, mitochondrial, also known as COA4, is the last enzyme of the mitochondrial respiratory chain, is a very complicated process and requires the assistance of a large number of accessory factors. It is essential for oxidative phosphorylation and comprises multiple complexes, including cytochrome c oxidase, assembled in macromolecular supercomplexes. Defects in COX4 assembly alter cellular respiration and produce severe human encephalomyopathies. Recombinant human COA4 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	12.5 kDa (110aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSTSVLPQ GHTWTQRVKK DDEEDPLDQ LISRSGCAAS HFAVQECMAQ HQDWRQCQPQ VQAFKDCMSE QQARRQEELQ

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	RRREQAGAAHH
Purity	>90% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)

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