

COA4, 1-87a Human, His tag, E.coli

Cat.NO.: TP01676

3th Edition

Synonyms:Cytochrome c oxidase assembly factor 4 homolog, mitochondrial, CHCHD8, CMC3, E2IG2

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 Weight:12.5 kDa (110aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMSTSVPGHTWTQRVKKDDEEEDPLDQLISRSGCAASHFAVQECMAQHQ
DWRQCQPQVQAFKDCMSEQQARRQEELQRRQEAGAAHH

Purity:> 95% by HPLC

Concentration:0.25 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.