
Product Data Sheet

Product Name: COA4 Human
 Cat. No.: GP23193
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CHCHD8; CMC3; E2IG2; Cytochrome c oxidase assembly factor 4 homolog; mitochondrial; Coiled-coil-helix-coiled-coil-helix domain-containing protein 8; E2-induced gene 2 protein; COA4.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSTSVQP GHTWTQRVKK DDEEDPLDQ LISRSGCAAS HFAVQECMAQ HQDWRQCQPQ VQAFKDCMSE QQARRQEELQ RRREQAGAAH.		
Formulation	COA4 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

Introduction

Cytochrome c oxidase assembly factor 4 (COA4) is the last enzyme of the mitochondrial respiratory chain which needs a great number of accessory factors. COA4 is vital for oxidative phosphorylation and comprises multiple complexes including cytochrome c oxidase, assembled in macromolecular supercomplexes. COX4 is a protein-coding gene which defect in it causes an acute human encephalomyopathies.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

COA4 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 110 amino acids (1-87 a.a) and having a molecular mass of 12.5kDa. COA4 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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