

Recombinant T. Thermophilus HB8 TTHA1942

Cat. No. TTHA1942-169T **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant T. Thermophilus HB8 calculated. Sco1, Putative cytochrome coxidase assembly protein was cloned from T. thermophilus HB8 and expressed in <i>E. coli</i> . The protein consists of the apo-Sco1(aa26-194), Accession Number Q5SGY8. MW = 19.6kDa.
Species	Human
Source	E.coli
Protein Length	26-194 a.a.
Description	Cytochrome coxidase subunit 4 isoform 1, mitochondrial is an enzyme that in humans is encoded by the COX4I1 gene. Cytochrome c oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to molecular oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial membrane. The complex consists of 13 mitochondrial- and nuclear-encoded subunits. The mitochondrially-encoded subunits perform the electron transfer and proton pumping activities. The functions of the nuclear-encoded subunits are unknown but they may play a role in the regulation and assembly of the complex. This gene encodes the nuclear-encoded subunit IV isoform 1 of the human mitochondrial respiratory chain enzyme. It is located at the 3' of the NOC4 (neighbor of COX4) gene in a head-to-head orientation, and shares a promoter with it.

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Purity	> 95% by SDS-PAGE. The protein was observed as a single band migrating around 20kDa.
Characteristics	Under the above described conditions, to avoid precipitation or protein dimerization, the product can be concentrated to a maximum of 1mM underInert atmosphere.
Supplied As	Solution of Apo-protein in 100mM Na ₂ HPO ₄ , pH 7.2. The concentration is calculated from the absorbance at 280nm.ε _{280nm} = 10000 M ⁻¹ cm ⁻¹).
Storage	-20°C. The protein is stable at 4°C for at least 2 weeks and at 25°C for at least some days. After initial defrost, aliquot protein into individual tubes and refreeze at -20°C. Avoid repeated freeze/defrost cycles.

GENE INFORMATION

Gene Name	TTHA1942 putative cytochrome c oxidase assembly protein [<i>Thermus thermophilus</i> HB8]
Synonyms	TTHA1942; putative cytochrome c oxidase assembly protein
Gene ID	3169813
Protein Refseq	YP_145208

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