

Recombinant Human COX7A2L Protein, GST-tagged

Cat. No. COX7A2L-1761H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human COX7A2L full-length ORF (AAH05251.1, 1 a.a. - 114 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes a protein similar to polypeptides 1 and 2 of subunit VIIa in the C-terminal region, and also highly similar to the mouse Sig81 protein sequence. This gene is expressed in all tissues, and upregulated in a breast cancer cell line after estrogen treatment. It is possible that this gene represents a regulatory subunit of COX and mediates the higher level of energy production in target cells by estrogen. Several transcript variants, some protein-coding and others non-protein coding, have been found for this gene. [provided by RefSeq, Jan 2016]
Molecular Mass	38.17 kDa
AA Sequence	MYYKFSGFTQKLAGAWASEAYSPQGLKPVVSTEAPPIIFATPTKLTSDSTVYDYAGK

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NKVPELQKFFQKADGVPVYLKRGLPDQMLYRTTMALTVGGTIYCLIALYMASQPKNK

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

COX7A2L cytochrome c oxidase subunit VIIa polypeptide 2 like [Homo sapiens]

Official Symbol

COX7A2L

Synonyms

COX7A2L; cytochrome c oxidase subunit VIIa polypeptide 2 like; cytochrome c oxidase subunit 7A-related protein, mitochondrial; COX7AR; COX7RP; EB1; SIG81; COX7a-related protein; estrogen receptor binding CpG island; cytochrome c oxidase subunit VII-related protein; cytochrome c oxidase subunit VIIa-related protein;

Gene ID

9167

mRNA Refseq

NM_004718

Protein Refseq

NP_004709

MIM

605771

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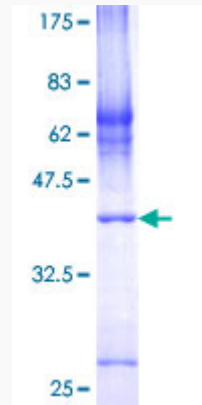


UniProt ID

O14548

Quality Control

Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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