

Product datasheet for PH314479

OriGene Technologies, Inc.

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Citrate synthetase (CS) (NM 004077) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards

Description: CS MS Standard C13 and N15-labeled recombinant protein (NP_004068)

Species: Human **HEK293 Expression Host: Expression cDNA Clone**

or AA Sequence:

RC214479

Predicted MW:

51.71 kDa

Protein Sequence:

>RC214479 representing NM_004077 Red=Cloning site Green=Tags(s)

MALLTAAARLLGTKNASCLVLAARHASASSTNLKDILADLIPKEQARIKTFRQQHGKTVVGQITVDMMYG GMRGMKGLVYETSVLDPDEGIRFRGFSIPECQKLLPKAKGGEEPLPEGLFWLLVTGHIPTEEQVSWLSKE WAKRAALPSHVVTMLDNFPTNLHPMSQLSAAVTALNSESNFARAYAQGISRTKYWELIYEDSMDLIAKLP CVAAKIYRNLYREGSGIGAIDSNLDWSHNFTNMLGYTDHQFTELTRLYLTIHSDHEGGNVSAHTSHLVGS ALSDPYLSFAAAMNGLAGPLHGLANQEVLVWLTQLQKEVGKDVSDEKLRDYIWNTLNSGRVVPGYGHAVL RKTDPRYTCQREFALKHLPNDPMFKLVAQLYKIVPNVLLEQGKAKNPWPNVDAHSGVLLQYYGMTEMNYY

TVLFGVSRALGVLAQLIWSRALGFPLERPKSMSTEGLMKFVDSKSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

C-Myc/DDK Tag:

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration: >0.05 µg/µL as determined by microplate BCA method

Labeling Method: Labeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-Lysine

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3

Store at -80°C. Avoid repeated freeze-thaw cycles. Storage:

Stability: Stable for 3 months from receipt of products under proper storage and handling conditions.

RefSeq: NP 004068

RefSeg Size: 2997 RefSeq ORF: 1398 Locus ID: 1431



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UniProt ID: <u>075390</u>, <u>A0A024RB75</u>

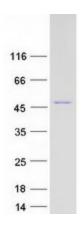
Cytogenetics: 12q13.3

Summary: The protein encoded by this gene is a Krebs tricarboxylic acid cycle enzyme that catalyzes the

synthesis of citrate from oxaloacetate and acetyl coenzyme A. The enzyme is found in nearly all cells capable of oxidative metablism. This protein is nuclear encoded and transported into the mitochondrial matrix, where the mature form is found. [provided by RefSeq, Jul 2008]

Protein Pathways: Citrate cycle (TCA cycle), Glyoxylate and dicarboxylate metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified CS protein (Cat# [TP314479]). The protein was produced from HEK293T cells transfected with CS cDNA clone (Cat# [RC214479]) using MegaTran 2.0 (Cat# [TT210002]).