

Product datasheet for PH314479

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
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC214479
Predicted MW:	51.71 kDa
Protein Sequence:	>RC214479 representing NM_004077 Red=Cloning site Green=Tags(s)

MALLTAAARLLGTKNASCLVLAARHASASSTNLKDILADLIPKEQARIKTFRQQHGKTVVVGQITVDDMMYG
GMRGMKGLVYETSVLDPDEGIRFRGFSIPECQKLLPKAKGGEEPLPEGLFWLLVTGHIPTEEQVSWLSKE
WAKRAALPSHVVTMLDNFPTNLHPMSQLSAAVTALNSESNFARAYAQGISRTKYWELIYEDSMDLIAKLP
CVAAKIYRNLYREGSGIGAIDSNDWSHNFTNMLGYTDHQFTEL TRL YLTIHSDHEGGNVSAAHTSHLVGS
ALSDPYLSFAAAMNGLAGPLHGLANQEVLVWLTQLQKEVGKDVSDKLRDYIWNTLNSGRVVPGYGHAVL
RKTDPRYTCQREFALKHLPNDPMFKLVAQLYKIVPNVLEQGKAKNPWPNVDAHSGVLLQYYGMTEMNYY
TVLFGVSRALGVLAQLIWSRALGFPLERP KSMSTEGLMKFVDSKSG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
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
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_004068</u>
RefSeq Size:	2997
RefSeq ORF:	1398
Locus ID:	1431



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UniProt ID: [O75390](#), [A0A024RB75](#)

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 metabolism. 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]).