

CS, 28-466aa, Human, His tag, E.coli

Cat.NO.: TP01734

3th Edition

Synonyms:Citrate synthase, mitochondrial precursor, CS - mitochondrial

Description:Citrate synthase (CS) is a Krebs tricarboxylic acid cycle enzyme that catalyzes the synthesis of citrate from oxaloacetate and acetyl coenzyme A. It 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. Recombinant human CS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Molecular Weight:51.4kDa (462aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSASSTNLKDILADLIPKEQARIKTFRQQHKGKTVVGGQITVDMMYGGMRGMKGL
VYETSVLDPDEGIRFRGFSIPECQKLLPKAKGGEEPLPEGLFWLLVTGHIPTTEEQVSWLSKEWAKRAALPSHVVTML
DNFPTNLHPMSQLSAAVTALNSESNFARAYAQQISRTKYWELIYEDSMDLIAKLPVAAKIYRNLYREGSGIGAIDSN
LDWSHNFTNMLGYTDHQFTELTRLYLTIHSDHEGGNVSHTSHLVGSALSDPYLSFAAAMNGLAGPLHGLANQEV
VWLTQLQKEVGKDVSDKLRDYIWNTLNLSGRVVPYGHAVLRKTDPRYTCQREFALKHLPNDPMPFKLVAQLYKIV
PNVLEQKGAKNPWPVDAHSGVLLQYYGMTEMNYYTVLFGVSRALGVLAQLIWSRALGFPLERPCKSMSTEGLMK
FVDSKSG

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by BRADFORD assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.