

**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  
VYETSVLDPDEGIRFRGFSIPECQKLLPKAKGGEEPLPEGLFWLLVTGHIPTEEQVSWLSKEWAKRAALPSHVVTML  
DNFPTNLHPMSQLSAAVTALNSESNFARAYAQQISRTKYWELIYEDSMDLIAKLPCVAAKIYRNLYREGSGIGAIASN  
LDWSHNFTNMLGYTDHQFTELRLYLTIHSDHEGGNVSAHTSHLVGSALSDPYLSFAAAMNGLAGPLHGLANQEV  
VWLTQLQKEVGKDVSDKLRDYIWNTLNSGRVVPGYGHAVLRKTDPRYTCQREFALKHLPNDPMFKLVAQLYKIV  
PNVLEQKGAKNPWPVNDAHSGVLLQYYGMTEMNYYTVLFGVSRALGVLAQLIWSRALGFPLERPCKSMSTEGLMK  
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.