

## 32-2228: CS Recombinant Protein

**Alternative Name :** Citrate Synthase, EC 2.3.3.1, Citrate (Si)-Synthase, EC 2.3.3, Citrate synthase, mitochondrial.

### Description

Source : Escherichia Coli. CS Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 462 amino acids (28-466 a.a) and having a molecular mass of 51.4kDa. CS is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Citrate synthase also known as CS is a Krebs tricarboxylic acid cycle enzyme which catalyzes the synthesis of citrate from oxaloacetate and acetyl coenzyme A. CS is present in almost all cells capable of oxidative metabolism. CS is nuclear encoded and transported into the mitochondrial matrix, where the mature form is found. The diseases related to CS are: critical illness polyneuropathy and mitochondrial cardiomyopathy.

### Product Info

<b>Amount :</b>	20 µg
<b>Purification :</b>	Greater than 90.0% as determined by SDS-PAGE.
<b>Content :</b>	CS protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.
<b>Storage condition :</b>	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
<b>Amino Acid :</b>	MGSSHHHHH SSGLVPRGSH MGSASSTNLK DILADLIPKE QARIKTRQQ HGKTVVGQIT VDMMYGGMRGMKGLVYETSV LDPDEGIRFR GFSIPECQKL LPKAKGGEEP LPEGLFWLLV TGHIPTEEQV SWLSKEWAKRAALPSHVVTM LDNFPTNLHP MSQLSAAVTA LNSESNFARA YAQGISRTKY WELIYEDSMD LIAKLPCVAA KIYRNLYREG SGIGAIDSNL DWSHNFTNML GYTDHQFTEL TRLYLTIHSD HEGGNVSAHT SHLVGSALSD PYLSFAAAMN GLAGPLHGLANQEVLVWLTQ LQKEVGKDVS DEKL RDYIWN TLNSGRVVP YGHAVLRKTD PRYTCQREFA LKHL PNDPMF KLVAQLYKIV PNVLLEQGKA KNPWPVNDAH SGVLLQYYGMTEMNYYTVLF GVSRLGVLA QLIWSRALGF PLERP KSMST EGLMKFVDSK SG.

