
Product Data Sheet

Product Name: CS Human
 Cat. No.: GP21497
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Citrate Synthase; EC 2.3.3.1; Citrate (Si)-Synthase; EC2.3.3; Citrate synthase; mitochondrial.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSASSTNLK DILADLIPKE QARIKTRFQQ HGKTVVGQIT VDDMYGGMRGMKGLVYETSV LDPDEGIRFR GFSIPECQKL LPKAKGGEEP LPEGLFWLLV TGHIPTEEQV SWLSKEWAKRAALPSHVVTM LDNFPTNLHP MSQLSAAVTA LNSESNFARA YAQGISRTKY WELIYEDSMD LIAKLPCVAA KIYRNLYREG SGIGAIDSNLDWSHNFTNML GYTDHQFTEL TRLYLTIHSD HEGGNVSAHT SHLVGSALSD PYLSFAAAMN GLAGPLHGLANQEVLVWLTQ LQKEVGKDVS DEKLRDYIWN TLNSGRVVP YGHAVLRKTD PRYTCQREFA LKHLPNDPMF KLVAQLYKIV PNVLLEQGKA KNPWPNVDAH SGVLLQYYGMTEMNYTVLF GVSRALGVLA QLIWSRALGF PLERP KSMST EGLMKFVDSK SG.		
Formulation	CS protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

Introduction

Citrate synthase also known as CS is a Krebs tricarboxylic acid cycle enzyme which catalyzes the synthesis of citrate from oxaloacetate and acetylcoenzyme 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.

Stability

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%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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.

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