

Recombinant Human CS, GST-tagged

Cat. No. CS-11610H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CS protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	132-466a.a.
Description	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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name	CS citrate synthase [Homo sapiens]
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Official Symbol	CS
Synonyms	CS; citrate synthase; citrate synthase, mitochondrial;
Gene ID	1431
mRNA Refseq	NM_004077
Protein Refseq	NP_004068
MIM	118950
UniProt ID	O75390
Chromosome Location	12q13.2
Pathway	Citrate cycle (TCA cycle), organism-specific biosystem; Citrate cycle (TCA cycle), conserved biosystem; Citrate cycle, first carbon oxidation, oxaloacetate => 2-oxoglutarate, organism-specific biosystem; Citrate cycle, first carbon oxidation, oxaloacetate => 2-oxoglutarate, conserved biosystem; Citric acid cycle (TCA cycle), organism-specific biosystem;
Function	citrate (Si)-synthase activity; citrate (Si)-synthase activity; transferase activity;