

## Recombinant Human CS, His-tagged

Cat. No. CS-259H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	A DNA sequence encoding the human CS (O75390) (Met1-Gly466) was expressed with a C-terminal polyhistidine tag.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	Met1-Gly466
<b>Form</b>	Lyophilized from sterile PBS, pH7.4.
<b>Molecular Mass</b>	The secreted recombinant human CS consists of 449 amino acids and predicts a molecular mass of 50.4 KDa. The apparent molecular mass of the protein is approximately 46 KDa in SDS-PAGE under reducing conditions.
<b>Endotoxin</b>	< 1.0 eu per µg of the protein as determined by the LAL method.
<b>Purity</b>	>90 % as determined by SDS-PAGE
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70°C
<b>Storage</b>	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	Hardcopy of COA with reconstitution instruction is sent along with the products.

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## GENE INFORMATION

<b>Gene Name</b>	CS citrate synthase [ Homo sapiens ]
<b>Official Symbol</b>	CS
<b>Synonyms</b>	CS; citrate synthase; citrate synthase, mitochondrial;
<b>Gene ID</b>	1431
<b>mRNA Refseq</b>	NM_004077
<b>Protein Refseq</b>	NP_004068
<b>MIM</b>	118950
<b>UniProt ID</b>	O75390
<b>Chromosome Location</b>	12q13.2
<b>Pathway</b>	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;
<b>Function</b>	citrate (Si)-synthase activity; citrate (Si)-synthase activity; transferase activity;

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