

Recombinant Human CYCS, His-tagged

Cat. No. CYCS-75H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Cytochrome C/CYCS is produced with our E. coli expression system. The target protein is expressed with sequence (Gly2-Glu105) of Human CYCS fused with a 6His tag at the C-terminus.
Species	Human
Source	E.coli
ProteinLength	2-105 a.a.
Description	Cytochrome C (CYCS) is a small heme protein that belongs to the cytochrome c family. It is found loosely associated with the inner membrane of the mitochondrion. Cytochrome C is a highly soluble protein that functions as a central component of the electron transport chain in mitochondria. CYCS transfers electrons between Complexes III (Coenzyme Q - Cyt C reductase) and IV (Cyt C oxidase). CYCS plays a role in apoptosis. Suppression of the anti-apoptotic members or activation of the pro-apoptotic members of the Bcl-2 family leads to altered mitochondrial membrane permeability resulting in release of cytochrome c into the cytosol. Binding of Cytochrome C to Apaf-1 triggers the activation of caspase-9, which then accelerates apoptosis by activating other caspases.
Form	Supplied as a 0.2 µM filtered solution of 20mM Tris, 0.15M NaCl, 20% Glycerol, pH 8.0
AA Sequence	MGDVEKGKKIFIMKCSQCHTVEKGGKHKTGPNLHGLFGRKTGQAPGYSYTAANKN

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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KGIIWGEDTL MEYLENPKKYIPGTKMIFVGIKKKEERADLIAYLKKATNELEHHHHHH

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

Storage Store at Please minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name CYCS cytochrome c, somatic [Homo sapiens]

Official Symbol CYCS

Synonyms CYCS; cytochrome c, somatic; cytochrome c; HCS; CYC; THC4;

Gene ID 54205

mRNA Refseq NM_018947

Protein Refseq NP_061820

MIM 123970

UniProt ID P99999

Chromosome Location 7p21.2

Pathway Activation of caspases through apoptosome-mediated cleavage, organism-specific biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific

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biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; Apoptosis, organism-specific biosystem; Apoptosis, organism-specific biosystem;

Function

electron transporter, transferring electrons from CoQH2-cytochrome c reductase complex and cytochrome c oxidase complex activity; heme binding; metal ion binding; protein binding; contributes_to protein serine/threonine phosphatase activity;

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