



Recombinant Protein Technical Manual
Recombinant Human Cytochrome C/CYCS Protein
(His Tag)
RPES1958

Product Data:

Product SKU: RPES1958

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P99999

Protein Information:

Molecular Mass: 12.8 kDa

AP Molecular Mass: 16 kDa

Tag: C-6His

Bio-activity:

Purity: > 85 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM Tris, 0.15M NaCl, 20% Glycerol, pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Cytochrome C; CYCS; CYC

Immunogen Information:

Sequence: Gly2-Glu105

Background:

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 triggers the activation of caspase-9, which then accelerates apoptosis by activating other caspases.