

## Recombinant Human Cytochrome C/CYCS Protein (His Tag)

Catalog Number: PKSH032336

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

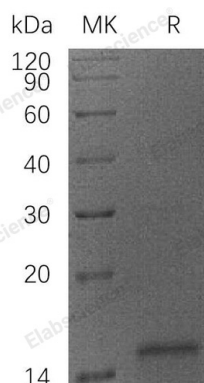
### Description

<b>Species</b>	Human
<b>Source</b>	E.coli-derived Human Cytochrome C;CYCS protein Gly2-Glu105, with an C-terminal His
<b>Calculated MW</b>	12.8 kDa
<b>Observed MW</b>	16 kDa
<b>Accession</b>	P99999
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Concentration</b>	Subject to label value.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	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.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM PB, 10% Trehalose, 200mM NaCl, 50% Glycerol, 0.05% Tween 80, pH7.0.

### Data



> 95 % as determined by reducing SDS-PAGE.

### 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-1 triggers the activation of caspase-9, which then accelerates apoptosis by activating other caspases.

### For Research Use Only

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