

Cytochrome c fragment (93-108)

Chemical Properties

CAS No.:	TP2237
Formula:	C79H133N23O25
Molecular Weight:	1805.04
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Cytochrome c is a small heme protein found loosely associated with the inner membrane of the mitochondrion. Cytochromes c from certain eukaryotes, including plants and fungi but not higher animals, contains methylated lysine residues at specific positions ¹ . Cytochrome c is a required cofactor for Apaf-1 function ² .
In vitro	Cytochrome c is absolutely required in vitro system for the activation of caspase-3 and caspase-9. When cytochrome c was depleted from HeLa cell S-100 extracts by a monoclonal antibody, the ability to activate caspases was abolished ⁴ . t. When cytochrome c was depleted, caspase-9 failed to bind Apaf-1 even in the presence of dATP. The binding was restored when purified cytochrome c was added. These suggest that cytochrome c initiates apoptosis by inducing the formation of the Apaf-1/caspase-9 complex ⁴ .

Solubility Information

Solubility	DMSO: ≥180.5mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.554 mL	2.77 mL	5.54 mL
5 mM	0.111 mL	0.554 mL	1.108 mL
10 mM	0.055 mL	0.277 mL	0.554 mL
50 mM	0.011 mL	0.055 mL	0.111 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Inhibitors · Natural Compounds · Compound Libraries

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