

p53 Protein, Cynomolgus

Cat. No.:	HY-P74657
Synonyms:	Cellular tumor antigen p53; TP53; Antigen NY-CO-13
Species:	Cynomolgus
Source:	E. coli
Accession:	E3U906 (M1-D393)
Gene ID:	716170
Molecular Weight:	Approximately 48 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of 100 mM Tris, 3% Glycerol, 4 mM DTT, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	p53 protein functions as a tumor suppressor in numerous tumor types, exerting its effects through the induction of growth arrest or apoptosis depending on the physiological conditions and cell type. In the realm of cell cycle regulation, p53 acts as a trans-activator that negatively regulates cell division by overseeing a set of genes crucial for this process, including an inhibitor of cyclin-dependent kinases. Apoptosis induction by p53 is thought to occur through the stimulation of BAX and FAS antigen expression or repression of Bcl-2 expression. The multifaceted role of p53 underscores its significance in orchestrating cellular responses to maintain genomic integrity and counteract aberrant cell proliferation.
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Caution: Product has not been fully validated for medical applications. For research use only.

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