dUTPase/DUT Protein, Human

Cat. No.:	HY-P70026
Synonyms:	rHuDeoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial/DUT; Deoxyuridine 5'-Triphosphate Nucleotidohydrolase Mitochondrial; dUTPase; dUTP Pyrophosphatase; DUT
Species:	Human
Source:	E. coli
Accession:	P33316-2 (M1-N164)
Gene ID:	1854
Molecular Weight:	Approximately 18.0 kDa

PROPERTIES

AA Sequence	M P C S E E T P A I S P S K R A R P A E V G G M Q L R F A R L S E H A T A P T R G S A R A A G Y D L Y S A Y D Y T I P P M E K A V V K T D I Q I A L P S G C Y G R V A P R S G L A A K H F I D V G A G V I D E D Y R G N V G V V L F N F G K E K F E V K K G D R I A Q L I C E R I F Y P E I E E V Q A L D D T E R G S G G F G S T G K N
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	Deoxyuridine 5'-triphosphate nucleotidohydrolase (DUT) is an essential enzyme of nucleotide metabolism, as DUT forms a ubiquitous, homotetrameric enzyme that hydrolyzes dUTP to dUMP and pyrophosphate, preventing uracil misincorporation into DNA efficiently and at the same time provides dUMP, the substrate for de novo thymidylate biosynthesis. Alternative splicing of DUT leads to different isoforms that localize to either the mitochondrion or nucleus. DUT also inhibits peroxisome proliferator-activated receptor (PPAR) activity by binding of its N-terminal to PPAR, preventing dimerization of PPAR and retinoid X receptor. DUT is essential for embryonic development as well [1][2][3]

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Caution: Product has not been fully validated for medical applications. For research use only.

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