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Datasheet for ABIN1692033

**Deoxyuridine Triphosphatase (DUT) (AA 1-164) Protein**

## Overview

Quantity:	50 µg
Target:	Deoxyuridine Triphosphatase (DUT)
Protein Characteristics:	AA 1-164
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

## Product Details

Purpose:	Recombinant Human dUTP Pyrophosphatase/dUTPase
Sequence:	MPCSEETPAI SPSKRARPAE VGGMQLRFAR LSEHATAPTR GSARAAGYDL YSAYDYTIIPP MEKAVVKTDI QIALPSGCGY RVAPRSLAA KHFIDVGAGV IDEDYRGNVG VVLFNFGKEK FEVKKGDRIA QLICERIFYP EIEEVQALDD TERGSGGFGS TGKN
Characteristics:	Recombinant Human Deoxyuridine 5'-Triphosphate Nucleotidohydrolase Mitochondrial/DUT is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Asn164) of Human DUTase.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

## Target Details

Target:	Deoxyuridine Triphosphatase (DUT)
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## Target Details

Alternative Name:	Dutpase ( <a href="#">DUT Products</a> )
Target Type:	Viral Protein
Background:	<p>Deoxyuridine 5'-Triphosphate Nucleotidohydrolase Mitochondrial (dUTPase) belongs to the dUTPase family. dUTPase exists as a homotrimer and is involved in nucleotide metabolism. dUTPase produces dUMP, the immediate precursor of thymidine nucleotides and it decreases the intracellular concentration of dUTP so that uracil cannot be incorporated into DNA. The dUTPase increase in PCR product yield, length and fidelity enables further down-stream applications. These effects make dUTPase useful in PCR fidelity and yield-sensitive applications. dUTPase is specific for dUTP and is critical for the fidelity of DNA replication and repair.</p> <p>Alternative Names: Deoxyuridine 5'-Triphosphate Nucleotidohydrolase Mitochondrial, dUTPase, dUTP Pyrophosphatase, DUT</p>
Molecular Weight:	17.7 kDa

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH<sub>2</sub>O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	<p>Store at &lt; -20°C, stable for 6 months after receipt.</p> <p>Please minimize freeze-thaw cycles.</p>
Expiry Date:	6 months