

# Recombinant Human Deoxyuridine Triphosphatase, His-tagged

**Cat. No.** DUT-792H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human DUT protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 21.6 kDa (204aa), confirmed by MALDI-TOF.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	DUT, also known as dUTP pyrophosphatase, is a ubiquitous enzyme that functions in nucleotide metabolism. This protein, in the presence of magnesium ions, is responsible for hydrolyzing dUTP to dUMP and diphosphate. This reaction is important for keeping the intracellular dUTP concentration low so that uracil does not become incorporated into DNA. Extensive incorporation of uracil into DNA can ultimately lead to cell death. This suggests that DUT is essential for cell viability, further implying that it is a potential target for anticancer therapy.
<b>Sequences Of Amino Acids</b>	MGSSHHHHHH SSSLVPRGSH MASTVGAAGW KGELPKAGGS PAPGPETPAI SPSKRARPAE VGGMLRFAR LSEHATAPTR GSARAAGYDL YSAYDYTIPP MEKAVVKTDI QIALPSGCYR RVAPRSLAA KHFIDVGAGV IDEYRGNVG VVLNFGKEK FEVKKGDRIA QLICERIFYP EIEEVQALDD TERGSGGFGS TGKN
<b>Purity</b>	> 90% by SDS – PAGE.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol 1mM DTT, 0.1M

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	NaCl.
<b>Concentration</b>	1 mg/ml (determined by Bradford assay).
<b>Storage</b>	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	DUT deoxyuridine triphosphatase [ Homo sapiens ]
<b>Synonyms</b>	DUT; deoxyuridine triphosphatase; dUTPase; FLJ20622; deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial; dUTP pyrophosphatase; dUTP nucleotidohydrolase; EC 3.6.1.23
<b>Gene ID</b>	1854
<b>mRNA Refseq</b>	NM_001025248
<b>Protein Refseq</b>	NP_001020419
<b>MIM</b>	601266
<b>UniProt ID</b>	P33316
<b>Chromosome Location</b>	15q21.1
<b>Pathway</b>	Metabolic pathways; Pyrimidine metabolism
<b>Function</b>	dUTP diphosphatase activity; hydrolase activity; protein binding

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