Recombinant Human Deoxyuridine Triphosphatase, His-tagged

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

SPECIFICATION

Product Overview	Recombinant humanDUT 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.
Species	Human
Source	E.coli
Description	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.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MASTVGAAGW KGELPKAGGS PAPGPETPAI SPSKRARPAE VGGMQLRFAR LSEHATAPTR GSARAAGYDL YSAYDYTIPP MEKAVVKTDI QIALPSGCYG RVAPRSGLAA KHFIDVGAGV IDEDYRGNVG VVLFNFGKEK FEVKKGDRIA QLICERIFYP EIEEVQALDD TERGSGGFGS TGKN
Purity	> 90% by SDS – PAGE.
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol 1mM DTT, 0.1M

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	NaCl.
Concentration	1 mg/ml (determined by Bradford assay).
Storage	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.

GENE INFORMATION

Gene Name	DUT deoxyuridine triphosphatase [Homo sapiens]
Synonyms	DUT; deoxyuridine triphosphatase; dUTPase; FLJ20622; deoxyuridine 5''-triphosphate nucleotidohydrolase, mitochondrial; dUTP pyrophosphatase; dUTP nucleotidohydrolase; EC 3.6.1.23
Gene ID	1854
mRNA Refseq	NM_001025248
Protein Refseq	NP_001020419
MIM	601266
UniProt ID	P33316
Chromosome Location	15q21.1
Pathway	Metabolic pathways; Pyrimidine metabolism
Function	dUTP diphosphatase activity; hydrolase activity; protein binding

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