

**DUT, 70-252aa, Human, His tag, E.coli**

**Cat.NO.: TP01943**

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3th Edition

**Synonyms:**Deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial, dUTPase, dUTP pyrophosphatase, FLJ20622

**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.

**Form:**Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol 1mM DTT, 0.1M NaCl.

**Molecular Weight:**21.6 kDa (204aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMASTVGAAGWKGELPKAGGSPAPGPETPAISPSKRARPAEVGGMQLRFARLSE  
HATAPTRGSARAAGYDLYSAYDYTIPPMKAVVKTDIQIALPSGCYGRVAPRSGLAAKHFDVVGAGVIDEDYRGNVG  
VVLNFGKEKFEVKKGDRIAQLICERIFYPEIEEVQALDDTERGSGGFGSTGKN

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.