

**Recombinant Human dUTP Pyrophosphatase/dUTPase Protein**

**Cat.NO.: TP05114**

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3th Edition

**Synonyms:**Deoxyuridine 5'-Triphosphate Nucleotidohydrolase Mitochondrial; dUTPase; dUTP Pyrophosphatase; DUT

**Description:**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.

**Form:**PBS

**Molecular Weight:**17.7 kDa

**Sequences:**Met 1-Asn164

**Purity:**> 95% by HPLC

**Concentration:**

**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.