

## 32-8151: Recombinant Human dUTP Pyrophosphatase/dUTPase

**Gene :** DUT  
**Gene ID :** 1854  
**Uniprot ID :** P33316

### Description

Source: E.coli.  
MW :20kD.

Recombinant Human Deoxyuridine 5'-Triphosphate Nucleotidohydrolase,Mitochondrial is produced by our E.coli expression system and the target gene encoding Met1-Asn164 is expressed with a 6His tag at the N-terminus. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHHSSGLVPRGSHMPCSEETPAISPSKRARPAEVGGMQLRFARLSEHATAPTRGSARAAGYDLYS  
AYDYTIIPMEKAVVKTDIQIALPSGCYGRVAPRSGLAAKHFIDVGAGVIDEDYRGNVGVVLFNFGKEKFEVKKGD  
RIAQLICERIFYPEIEEVQALDDTERGSGGFGSTGKN

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.