



# Recombinant Protein Technical Manual

## Recombinant Human dUTPase Protein (His Tag)

RPES2560

### Product Data:

**Product SKU:** RPES2560

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P33316-2

### Protein Information:

**Molecular Mass:** 20.0 kDa

**AP Molecular Mass:** 18 kDa

**Tag:** N-6His

**Bio-activity:**

**Purity:** > 90 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at<-20°C.

**Formulation:** Supplied as a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

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

## Immunogen Information:

**Sequence:** Met 1-Asn164

## Background:

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.