



# Recombinant Protein Technical Manual

## Recombinant Human DTD1 Protein (His Tag)

RPES2521

### Product Data:

**Product SKU:** RPES2521

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q8TEA8

### Protein Information:

**Molecular Mass:** 24.5 kDa

**AP Molecular Mass:** 30 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % 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:** D-tyrosyl-tRNA(Tyr) deacylase 1; DNA-unwinding element-binding protein B; DUE-B; Histidyl-tRNA synthase-related; DTD1; C20orf88; DUEB; HARS2

## Immunogen Information:

**Sequence:** Met 1-Pro209

## Background:

D-tyrosyl-tRNA(Tyr) deacylase 1(DTD1) belongs to the DTD family, and expressed in many adult and fetal tissues such as testis, ovary, spleen in adult and fetal brain. It is a nucleus and cytoplasm located protein, and is preferentially phosphorylated in cells arrested early in S phase. DTD1 is an ATPase involved in DNA replication, it may facilitate loading of CDC45 onto pre-replication complexes. The protein may hydrolyze D-tyrosyl-tRNA(Tyr) into D-tyrosine and free tRNA(Tyr), a possible defense mechanism against a harmful effect of D-tyrosine.