



# Recombinant Protein Technical Manual

## Recombinant Human TPK1 Protein (His Tag)

RPES0627

### Product Data:

**Product SKU:** RPES0627

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q9H3S4

### Protein Information:

**Molecular Mass:** 28.2 kDa

**AP Molecular Mass:**

**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:** Thiamin pyrophosphokinase 1; hTPK1; Placental protein 20; PP20; Thiamine pyrophosphokinase 1; TPK1

## Immunogen Information:

**Sequence:** Met 1-Ser243

## Background:

Thiamin pyrophosphokinase 1 (TPK1), belongs to the thiamine pyrophosphokinase family. TPK1 exists as a homodimer, and is detected in heart, kidney, testis, small intestine and peripheral blood leukocytes, and at very low levels in a variety of tissues. TPK1 can catalyze the phosphorylation of thiamine to thiamine pyrophosphate. It can also catalyze the phosphorylation of pyrithiamine to pyrithiamine pyrophosphate.