# Recombinant Protein Technical Manual

## Recombinant S. cerevisiae TIM16 Protein

**RPES4008**

## Product Data:

**Product SKU:** RPES4008

**Size:** 10µg

**Species**: S. cerevisiae

**Expression host:** E. coli

**Uniprot:** P42949

## Protein Information:

**Molecular Mass:** 7.9 kDa

**AP Molecular Mass:** 11 kDa

**Tag:**

**Bio-activity:**

**Purity:** > 95% as determined by reducing SDS-PAGE.

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

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM Tris, 300mM NaCl, pH8.0.

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

**Application:**

**Synonyms:** Mitochondrial import inner membrane translocase subunit TIM16; Presequence translocated-associated motor subunit PAM16; PAM16; TIM16

## Immunogen Information:

**Sequence:** Thr54-Ala119

## Background:

Mitochondrial import inner membrane translocase subunit TIM16 (TIM16) is an ssential component of the PAM complex. PAM complex is required for the translocation of transit peptide-containing proteins from the inner membrane into the mitochondrial matrix in an ATP-dependent manner. In the complex, TIM16 is required to regulate activity of mtHSP70 (SSC1) via its interaction with PAM18/TIM14. TIM16 may act by positioning PAM18/TIM14 in juxtaposition to mtHSP70 at the translocon to maximize ATPase stimulation.