# Recombinant S. cerevisiae TIM16 Protein

**Catalog No.** PKSQ050084

***Note:*** Centrifuge before opening to ensure complete recovery of vial contents.

## Description

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|---|---|
| **Synonyms** | Mitochondrial import inner membrane translocase subunit TIM16;Presequence translocated-associated motor subunit PAM16;PAM16;TIM16 |
| **Species** | S. cerevisiae |
| **Expression Host** | E.coli |
| **Sequence** | Thr54-Ala119 |
| **Accession** | P42949 |
| **Calculated Molecular Weight** | 7.9 kDa |
| **Observed molecular weight** | 11 kDa |
| **Tag** | None |
| **Bioactivity** | Not validated for activity |

## Properties

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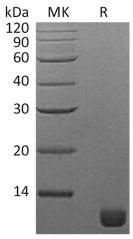
|---|---|
| **Purity** | > 95 % as determined by reducing SDS-PAGE. |
| **Endotoxin** | < 1.0 EU per μg of the protein as determined by the LAL method. |
| **Storage** | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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-HCl, 300mM NaCl, pH 8.0.<br>Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| **Reconstitution** | Please refer to the printed manual for detailed information. |

## Data




> 95 % as determined by reducing SDS-PAGE.

## 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.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