

TIM16 Protein, *S. cerevisiae*, Recombinant

General Information

Synonyms:	TIM16;Mitochondrial import inner membrane translocase subunit TIM16;PAM16;Presequence translocated-associated motor subunit PAM16
Protein Construction:	Thr54-Ala119
Species:	<i>S. cerevisiae</i>
Expression Host:	<i>E. coli</i>
Accession:	P42949
Molecular Weight:	11 KDa (reducing condition)
AA Sequence:	Thr54-Ala119

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris-HCl, 300 mM NaCl, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Mitochondrial import inner membrane translocase subunit TIM16 (TIM16) is an essential 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481