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Recombinant S. cerevisiae TIM14 Protein

Catalog No. PKSQ050085

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

Description

Synonyms Mitochondrial import inner membrane translocase subunit

TIM14; Presequence translocated-associated motor subunit PAM18; PAM18; TIM14

Species S. cerevisiae

Expression Host E.coli

SequencePhe99-Lys168AccessionQ07914Calculated Molecular Weight7.9 kDaObserved molecular weight9 kDa

Properties

Tag

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

None

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°C. Reconstituted protein solution can be stored at 4-8°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-HCl, 300mM NaCl, pH

8.0.

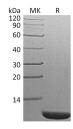
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as

protectants before lyophilization.

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 TIM14 (TIM14) is an essential component of the PAM

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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, TIM14 is required to stimulate activity of mtHSP70 (SSC1). TIM14 belongs to the DnaJ family, which has been involved in Hsp40/Hsp70 chaperone systems. As a mitochondrial chaperone, TIM14 functions as part of the TIM23 complex import motor to facilitate the import of nuclearencoded proteins into the mitochondria. TIM14 also complexes with prohibitin complexes to regulate mitochondrial morphogenesis, and has been implicated in dilated cardiomyopathy with ataxia.

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