

Product datasheet for TP727592

Saccharomyces cerevisiae Recombinant Protein

Product data:

Product Type: Recombinant Proteins Recombinant S. cerevisiae TIM14 **Description:** Species: Saccharomyces cerevisiae **Expression cDNA Clone** Phe99-Lys168 or AA Sequence: **Buffer:** Lyophilized from a 0.2 um filtered solution of 20mM Tris-HCl, 300mM NaCl, pH 8.0. Recombinant S. cerevisiae Mitochondrial Import Inner Membrane Translocase Subunit TIM14 Note: is produced by our E.coli expression system and the target gene encoding Phe99-Lys168 is expressed. 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. Aliguots of reconstituted samples are stable at < -20°C for 3 months. Stability: 12 months from date of despatch Synonyms: Mitochondrial import inner membrane translocase subunit TIM14; Presequencetranslocatedassociated motor subunit PAM18; PAM18; TIM14 Summary: Mitochondrial import inner membrane translocase subunit TIM14 (TIM14) 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, 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 nuclear-encoded 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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