

TRF1 Protein, Human (sf9, His)

Cat. No.:	HY-P74493
Synonyms:	Telomeric repeat-binding factor 1; TERF1; PIN2; TRBF1; TRF
Species:	Human
Source:	Sf9 insect cells
Accession:	P54274-2/NP_003209 (M1-D419)
Gene ID:	7013
Molecular Weight:	Approximately 60 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 8.0, 10% Glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The TRF1 Protein is encoded by this gene and serves as a telomere-specific component within the telomere nucleoprotein complex. Maintained at telomeres throughout the cell cycle, TRF1 acts as an inhibitor of telomerase, playing a crucial role in limiting the elongation of individual chromosome ends. The protein structure features a C-terminal Myb motif, a dimerization domain near its N-terminus, and an acidic N-terminus. Multiple transcripts of this gene result from alternative splicing. TRF1 displays ubiquitous expression, with notable levels detected in the brain (RPKM 11.2), ovary (RPKM 9.8), and 25 other tissues. This broad expression pattern underscores its essential role in various physiological contexts across multiple organs.
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Caution: Product has not been fully validated for medical applications. For research use only.

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