

# Recombinant Human TMPO Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** TMPO-5025H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | TMPO MS Standard C13 and N15-labeled recombinant protein (NP_001027454) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | Through alternative splicing, this gene encodes several distinct LEM domain containing protein isoforms. LEM domain proteins include inner nuclear membrane and intranuclear proteins, and are involved in a variety of cellular functions including gene expression, chromatin organization, and replication and cell cycle control. The encoded alpha isoform is broadly diffuse in the nucleus and contains a lamin binding domain, while the beta and gamma isoforms are localized to the nuclear membrane and contain an HDAC3 interaction domain. The distinct isoforms may compete with each other when acting to chaperone other proteins and regulate transcription. |
| <b>Molecular Mass</b>   | 50.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | MPEFLEDPSVLTKDKLKSELVANNVTLPAGEQRKDVYVQLYLQHLTARNRPPLPAGT<br>NSKGPPDFSSDEEREPTPVLGSGAAAAGRSRAAVGRKATKTKDKPRQEDKDDLDV<br>TELTNEDLLDQLVKYGVNPGPIVGTTTRKLYEKKLLKLREQGTESRSSTPLPTISSAE<br>NTRQNGSNDSDRYSDNEEDSKIELKLEKREPLKGRAKTPVTLKQRRVEHNQSYSQA<br>GITETEWTSKGSSKGGPLQALTRESTRGSRRTPRKRVETSEHFRIDGPVISESTPIAET                                                                                                                                                                                                                                                                                                                                                                 |

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IMASSNESLVVNRVTGNFKHASPILPITEFSDIPRRAPKKPLTRAEVGEKTEERRVER  
DILKEMFPYEASTPTGISASCRRPIKGAAGRPLELSDFRMEESFSSKYVPKYVPLADV  
KSEKTKKGRSIPVWIKILLFVVAVFLFLVYQAMETNQVNPFSNFLHVDPRKSNTTRTR  
PLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** [TMPO thymopoietin \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [TMPO](#)

**Synonyms** TMPO; thymopoietin; LAP2; LEM domain containing 4; LEMD4; TP; TP alpha; TP beta/gamma; lamina-associated polypeptide 2; thymopoietin-related peptide isoform alpha; thymopoietin-related peptide isoforms beta/gamma; CMD1T; PRO0868; MGC61508;

**Gene ID** [7112](#)

**mRNA Refseq** [NM\\_001032283](#)

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**Protein Refseq** NP\_001027454

**MIM** 188380

**UniProt ID** P42166

**SDS-PAGE**



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