

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

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

SPECIFICATION

Product Overview	TMPO MS Standard C13 and N15-labeled recombinant protein (NP_001027454) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	50.7 kDa
AA Sequence	MPEFLEDPSVLTKDKLKSELVANNVTLPAGEQRKDVYVQLYLQHLTARNRPPLPAGT NSKGPPDFSSDEEREPTPVLGSGAAAAGRSRAAVGRKATKTKDKPRQEDKDDLVDV TELTNEDLLDQLVKYGVNPGPIVGTTTRKLYEKKLLKLREQGTESRSSTPLPTISSAE NTRQNGSNDSDRYSDNEEDSKIELKLEKREPLKGRAKTPVTLKQRRVEHNQSYSQA 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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