

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

Cat. No. TPPP-2758H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TPPP MS Standard C13 and N15-labeled recombinant protein (NP_008961) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Regulator of microtubule dynamics that plays a key role in myelination by promoting elongation of the myelin sheath. Acts as a microtubule nucleation factor in oligodendrocytes: specifically localizes to the postsynaptic Golgi apparatus region, also named Golgi outpost, and promotes microtubule nucleation, an important step for elongation of the myelin sheath. Required for both uniform polarized growth of distal microtubules as well as directing the branching of proximal processes. Shows magnesium-dependent GTPase activity; the role of the GTPase activity is unclear. In addition to microtubule nucleation activity, also involved in microtubule bundling and stabilization of existing microtubules, thereby maintaining the integrity of the microtubule network. Regulates microtubule dynamics by promoting tubulin acetylation: acts by inhibiting the tubulin deacetylase activity of HDAC6. Also regulates cell migration: phosphorylation by ROCK1 inhibits interaction with HDAC6, resulting in decreased acetylation of tubulin and increased cell motility. Plays a role in cell proliferation by regulating the G1/S-phase transition. Involved in astral microtubule organization and mitotic spindle orientation during early stage of mitosis; this process is regulated by phosphorylation by LIMK2.

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Molecular Mass	23.7 kDa
AA Sequence	MADKAKPAKAANRTPPKSPGDPSKDRAAKRLSLESEGAGEGAAASPELSALEEAFR RFAVHGDARATGREMHGKNWSKLCKDCQVIDGRNVTVDVDIVFSKIKGKSCRTITF EQFQEALEELAKKRFDKSSSEAVREVRHLIEGKAPIISGVTKAISSPTVSRLTDTTKF TGSHERFDPSGKGKGKAGRVDLVDESGYVSGYKHAGTYDQKVQGGKTRTRPLE QKLISEEDLAANDILDYKDDDDKV
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	TPPP tubulin polymerization promoting protein [Homo sapiens (human)]
Official Symbol	TPPP
Synonyms	TPPP; tubulin polymerization promoting protein; tubulin polymerization-promoting protein; brain specific protein p25 alpha; p25; p25alpha; TPPP/p25; TPPP1; p25-alpha; 25 kDa brain-specific protein; glycogen synthase kinase 3 (GSK3) inhibitor p24; p24;
Gene ID	11076

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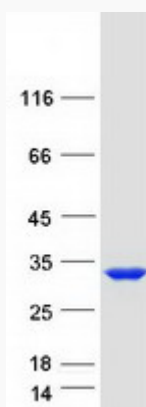
mRNA Refseq NM_007030

Protein Refseq NP_008961

MIM 608773

UniProt ID O94811

SDS-PAGE



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