

Recombinant Mouse Thg1l Protein, Myc/DDK-tagged

Cat. No. Thg1l-6412M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length tRNA-histidine guanylyltransferase 1-like (<i>S. cerevisiae</i>) (Thg1l), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Adds a GMP to the 5'-end of tRNA(His) after transcription and RNase P cleavage. This step is essential for proper recognition of the tRNA and for the fidelity of protein synthesis. Also functions as a guanyl-nucleotide exchange factor/GEF for the MFN1 and MFN2 mitofusins thereby regulating mitochondrial fusion. By regulating both mitochondrial dynamics and bioenergetic function, it contributes to cell survival following oxidative stress.
Molecular Mass	35 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method

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Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Thg1l tRNA-histidine guanylyltransferase 1-like (*S. cerevisiae*) [*Mus musculus* (house mouse)]

Official Symbol Thg1l

Synonyms THG1L; tRNA-histidine guanylyltransferase 1-like (*S. cerevisiae*); probable tRNA(His) guanylyltransferase; nterphase cytoplasmic foci protein 45; AA387658; RP23-298M7.6; 1700121M19Rik; 5730409G07Rik; MGC107321

Gene ID 66628

mRNA Refseq NM_001080969

Protein Refseq NP_001074438

UniProt ID Q9CY52

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