

Recombinant Mouse Pus10 Protein, Myc/DDK-tagged

Cat. No. Pus10-5259M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length pseudouridylate synthase 10 (Pus10), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Protein with different functions depending on its subcellular location: involved in miRNA processing in the nucleus and acts as a tRNA pseudouridylate synthase in the cytoplasm. In the cytoplasm, acts as a pseudouridylate synthase by catalyzing synthesis of pseudouridine(54) and pseudouridine(55) from uracil-54 and uracil-55, respectively, in the psi GC loop of a subset of tRNAs. tRNA pseudouridylate synthase activity is enhanced by the presence of 1-methyladenosine at position 53-61 of tRNAs. In the nucleus, promotes primary microRNAs (pri-miRNAs) processing independently of its RNA pseudouridylate synthase activity. Binds pri-miRNAs. Modulator of TRAIL/TNFSF10-induced cell death via activation of procaspase-8 and BID cleavage. Required for the progression of the apoptotic signal through intrinsic mitochondrial cell death.
Molecular Mass	59.7 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.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Pus10 pseudouridylate synthase 10 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Pus10
Synonyms	PUS10; pseudouridylate synthase 10; putative tRNA pseudouridine synthase Pus10; psi55 synthase; tRNA-uridine isomerase; tRNA pseudouridylate synthase; tRNA pseudouridine 55 synthase; coiled-coil domain containing 139; coiled-coil domain-containing protein 139; C77560; Ccdc139; AU014648; 2810013G11Rik; 4933435A13Rik; RP23-164N15.2
Gene ID	74467
mRNA Refseq	NM_028304
Protein Refseq	NP_082580
UniProt ID	Q9D3U0