Recombinant Human PUS1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PUS1-5714H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PUS1 MS Standard C13 and N15-labeled recombinant protein (NP_001002019) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a pseudouridine synthase that converts uridine to pseudouridine once it has been incorporated into an RNA molecule. The encoded enzyme may play an essential role in tRNA function and in stabilizing the secondary and tertiary structure of many RNAs. A mutation in this gene has been linked to mitochondrial myopathy and sideroblastic anemia. Alternate splicing results in multiple transcript variants.
Molecular Mass	44.4 kDa
AA Sequence	MAGNAEPPPAGAACPQDRRSCSGRAGGDRVWEDGEHPAKKLKSGGDEERREKP PKRKIVLLMAYSGKGYHGMQRNVGSSQFKTIEDDLVSALVRSGCIPENHGEDMRKM SFQRCARTDKGVSAAGQVVSLKVWLIDDILEKINSHLPSHIRILGLKRVTGGFNSKNR CDARTYCYLLPTFAFAHKDRDVQDETYRLSAETLQQVNRLLACYKGTHNFHNFTSQ KGPQDPSACRYILEMYCEEPFVREGLEFAVIRVKGQSFMMHQIRKMVGLVVAIVKGY APESVLERSWGTEKVDVPKAPGLGLVLERVHFEKYNQRFGNDGLHEPLDWAQEEG KVAAFKEEHIYPTIIGTERDERSMAQWLSTLPIHNFSATALTAGGTGAKVPSPLEGSE

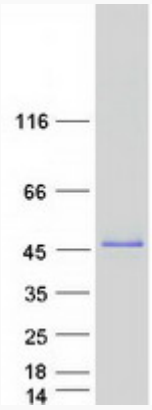
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	GDGDTDTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated 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	PUS1 pseudouridylate synthase 1 [Homo sapiens (human)]
Official Symbol	PUS1
Synonyms	PUS1; pseudouridylate synthase 1; tRNA pseudouridine synthase A, mitochondrial; tRNA uridine isomerase I; tRNA-uridine isomerase I; tRNA pseudouridylate synthase I; tRNA pseudouridine(38-40) synthase; mitochondrial tRNA pseudouridine synthase A; MLASA1; MGC11268;
Gene ID	80324
mRNA Refseq	NM_001002019
Protein Refseq	NP_001002019
MIM	608109

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UniProt ID	Q9Y606
SDS-PAGE	

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