Recombinant Human DUS2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DUS2-3072H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DUS2L MS Standard C13 and N15-labeled recombinant protein (NP_060273) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a cytoplasmic protein that catalyzes the conversion of uridine residues to dihydrouridine in the D-loop of tRNA. The resulting modified bases confer enhanced regional flexibility to tRNA. The encoded protein may increase the rate of translation by inhibiting an interferon-induced protein kinase. This gene has been implicated in pulmonary carcinogenesis. Alternatively spliced transcript variants have been described for this gene.
Molecular Mass	55.1 kDa
AA Sequence	MILNSLSLCYHNKLILAPMVRVGTLPMRLLALDYGADIVYCEELIDLKMIQCKRVVNEV LSTVDFVAPDDRVVFRTCEREQNRVVFQMGTSDAERALAVARLVENDVAGIDVNM GCPKQYSTKGGMGAALLSDPDKIEKILSTLVKGTRRPVTCKIRILPSLEDTLSLVKRIE RTGIAAIAVHGRKREERPQHPVSCEVIKAIADTLSIPVIANGGSHDHIQQYSDIEDFRQ ATAASSVMVARAAMWNPSIFLKEGLRPLEEVMQKYIRYAVQYDNHYTNTKYCLCQM LREQLESPQGRLLHAAQSSREICEAFGLGAFYEETTQELDAQQARLSAKTSEQTGE PAEDTSGVIKMAVKFDRRAYPAQITPKMCLLEWCRREKLAQPVYETVQRPLDRLFS

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	SIVTVAEQKYQSTLWDKSKKLAEQAAAIVCLRSQGLPEGRLGEESPSLHKRKREAPD QDPGGPRAQELAQPGDLCKKPFVALGSGEESPLEGWTRTRPLEQKLISEEDLAAND ILDYKDDDDKV
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	DUS2 dihydrouridine synthase 2 [Homo sapiens (human)]
Official Symbol	DUS2
Synonyms	DUS2; dihydrouridine synthase 2; SMM1; DUS2L; URLC8; tRNA-dihydrouridine(20) synthase [NAD(P)+]-like; SMM1 homolog; dihydrouridine synthase 2-like, SMM1 homolog; tRNA-dihydrouridine(20) synthase (NAD(P)(+)); up-regulated in lung cancer protein 8; EC 1.3.1.91
Gene ID	54920
mRNA Refseq	NM_017803
Protein Refseq	NP_060273

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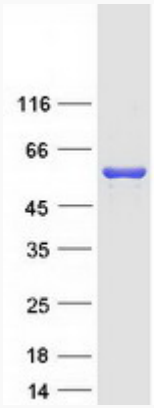
MIM	609707
UniProt ID	Q9NX74
SDS-PAGE	

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