Recombinant Human CMAS 293 Cell Lysate

Cat. No. CMAS-7422HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for cytidine monophosphate N-acetylneuraminic acid synthetase (CMAS) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	CMAS cytidine monophosphate N-acetylneuraminic acid synthetase [Homo sapiens]
Official Symbol	CMAS
Synonyms	CMAS; cytidine monophosphate N-acetylneuraminic acid synthetase; N-acylneuraminate cytidylyltransferase; CMP Neu5Ac synthetase; CMP-NeuNAc synthase; CMP-Neu5Ac synthetase; CMP-NeuNAc synthetase; CMP-N-acetylneuraminic acid synthase; CMP-N-acetylneuraminic acid synthetase; cytidine 5-monophosphate N-acetylneuraminic acid synthetase;
Gene ID	55907
mRNA Refseq	NM_018686
Protein Refseq	NP_061156
MIM	603316
UniProt ID	Q8NFW8
Chromosome Location	12p12.1
Pathway	Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; CMP-N-

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	acetylneuraminate biosynthesis I (eukaryotes), organism-specific biosystem; Metabolic pathways, organism-specific biosystem;
Function	N-acylneuraminate cytidylyltransferase activity; nucleotidyltransferase activity; transferase activity;

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