

Recombinant Human NADSYN1 293 Cell Lysate

Cat. No. NADSYN1-3985HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for NAD synthetase 1 (NADSYN1) 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.
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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	NADSYN1 NAD synthetase 1 [Homo sapiens]
Official Symbol	NADSYN1
Synonyms	NADSYN1; NAD synthetase 1; glutamine-dependent NAD(+) synthetase; FLJ10631; NAD(+) synthase; NAD(+) synthetase; glutamine-dependent NAD synthetase; FLJ36703; FLJ40627;
Gene ID	55191
mRNA Refseq	NM_018161
Protein Refseq	NP_060631
MIM	608285
UniProt ID	Q6IA69
Chromosome Location	11q13.4
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of vitamins and cofactors, organism-specific biosystem; Metabolism of water-soluble vitamins and cofactors, organism-specific biosystem; NAD biosynthesis II (from tryptophan), organism-specific biosystem; NAD biosynthesis from 2-amino-3-carboxymuconate semialdehyde, organism-specific biosystem; Nicotinate and nicotinamide metabolism, organism-specific biosystem;

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Function

ATP binding; NAD⁺ synthase (glutamine-hydrolyzing) activity; hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds; ligase activity; nucleotide binding;

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