

Recombinant Human NADSYN1 293 Cell Lysate

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

SPECIFICATION

Product Overview

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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 [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

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biosynthesis from 2-amino-3-carboxymuconate semialdehyde, organism-specific biosystem; Nicotinate and nicotinamide metabolism, organism-specific biosystem;

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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