

## Product datasheet for PH300131

### NAD Synthetase (NADSYN1) (NM\_018161) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	NADSYN1 MS Standard C13 and N15-labeled recombinant protein (NP_060631)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200131
Predicted MW:	79.3 kDa
Protein Sequence:	>RC200131 protein sequence Red=Cloning site Green=Tags(s)

MGRKVTVATCALNQWALDFEGLNQRILKSIEIAKNRGARYRLGPELEICGYGCWDHYESDTLLHSFQVL  
AALLESPTQDIICDVGMPVMHRNVRYNCRVIFLNRKILLIRPKMALANEGNYRELRFWTFPWSRSRHTTE  
YFLPRMIQDLTKQETVPFGDAVLVTWDTICIGSEICEELWTPHSPHIDMGLDGVEIITNASGSHHVLKANK  
TRVDLVTMVTSKNGGIYLLANQKGCDDRLYYDGCAMIAMNGSVFAQGSQFSLDDVEVLTATLDLEDVRS  
YRAEISSRNLAASRASPYPRVKVDFALSCHEDLLAPISEPIEWKYHSPEEEISLGPACWLWDFLRRSQQA  
GFLPLSGGVDSAATACLIYSMCCQVCEAVRSGNEEVLADVRTIVNQISYTPQDPRDLCGRILTTCYMAS  
KNSSQETCTRARELAQQIGSHHISLNIDPAVKAVMGIFSLVTGKSPLFAAHGGSSRENALQNVQARIRM  
VLAYLFAQLSLWSRGVHGGLLVLSANVDESLLGYLTKYDCSSADINPIGGISKDRLRAFVQFCIQRFQL  
PALQSILLAPATAELEPLADGQVSQTDEEDMGMTYAELSVYGKLRKVAKMGPYSMFCKLLGMWRHICTPR  
QVADKVKRFFSKYSMNRHKMTTLTPAYHAENYSPEDNRFDLRPFYNTSWPWQFRCIENQVLQLERAEPQ  
SLDGVD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_060631</a>



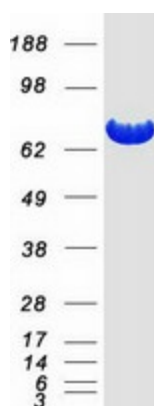
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RefSeq Size:	2453
RefSeq ORF:	2118
Synonyms:	VCRL3
Locus ID:	55191
UniProt ID:	<a href="#">Q6IA69</a>
Cytogenetics:	11q13.4

**Summary:** Nicotinamide adenine dinucleotide (NAD) is a coenzyme in metabolic redox reactions, a precursor for several cell signaling molecules, and a substrate for protein posttranslational modifications. NAD synthetase (EC 6.3.5.1) catalyzes the final step in the biosynthesis of NAD from nicotinic acid adenine dinucleotide (NaAD).[supplied by OMIM, Apr 2004]

**Protein Pathways:** Metabolic pathways, Nicotinate and nicotinamide metabolism

### Product images:



Coomassie blue staining of purified NADSYN1 protein (Cat# [TP300131]). The protein was produced from HEK293T cells transfected with NADSYN1 cDNA clone (Cat# [RC200131]) using MegaTran 2.0 (Cat# [TT210002]).