

RESEARCH GUIDE

NAD+

Nicotinamide adenine dinucleotide

OVERVIEW

NAD+ (nicotinamide adenine dinucleotide) is a naturally occurring dinucleotide and an essential coenzyme present in all living cells, where it acts as an electron carrier in redox reactions. It is widely used as a biochemical reference compound and reagent in laboratory research.

BATCH VERIFICATION

HW260415-1
<https://mypepbiotech.co.uk/quality-assurance/?batch=HW260415-1>

CHEMICAL INFORMATION

Product name	NAD+
Classification	Coenzyme / dinucleotide
CAS number	53-84-9
Molecular formula	C21H27N7O14P2
Molecular weight	663.43
Appearance	White powder
Solubility	Water-soluble

LABORATORY RESEARCH CONTEXT

This material is supplied strictly as a reference compound for laboratory research. It is intended for use by qualified personnel in an appropriately equipped research environment for in vitro and other non-clinical investigations. Nothing in this guide describes or implies any medical, therapeutic, diagnostic or performance use, and no such use is intended or supported.

RECONSTITUTION (LABORATORY USE)

NAD+ is water-soluble. For laboratory use, the lyophilised powder may be dissolved in sterile or distilled water. Add solvent slowly down the inside wall of the vial, allow the material to dissolve without agitation, and swirl gently rather than shaking.

STORAGE GUIDANCE

Store the sealed vial in a cool, dry place away from strong light and heat. For long-term storage, -20°C is recommended. Once reconstituted, keep solutions refrigerated (2–8°C) and use within your laboratory's validated timeframe.

HANDLING GUIDANCE

Wear appropriate personal protective equipment (gloves, laboratory coat, eye protection). Avoid inhalation, ingestion and contact with skin and eyes. Handle in a clean, well-ventilated laboratory area, keep away from food and drink, and wash hands thoroughly after handling.

Batch traceability. Every vial is supplied with a unique batch number. Retain your batch number and confirm the matching branded Certificate of Analysis at

Research Use Only. This product is intended solely for laboratory research purposes. It is not a medicine or supplement and is not intended for diagnostic, therapeutic, or any human or veterinary use.