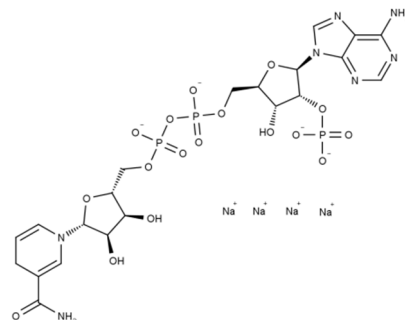




## NADPH, tetrasodium salt

**Catalog No:** 16156  
**Lot No:** XXXXX  
**Cas No:** 2646-71-1  
**Formula:** C<sub>21</sub>H<sub>26</sub>N<sub>7</sub>O<sub>17</sub>P<sub>3</sub> · 4Na  
**MW:** 833.4  
**Supplied as:** solid  
**Stability:** store at -20°C



### Background

Nicotinamide adenine dinucleotide phosphate, abbreviated NADP<sup>+</sup> or, in older notation, TPN (triphosphopyridine nucleotide), is a coenzyme used in anabolic reactions, such as lipid and nucleic acid synthesis, which require NADPH as a reducing agent. NADPH is the reduced form of NADP<sup>+</sup>. NADP<sup>+</sup> differs from NAD<sup>+</sup> in the presence of an additional phosphate group on the 2' position of the ribose ring that carries the adenine moiety.

### Tests

#### Appearance:

#### Appearance of solution (50 mg/ml):

#### Water content (K.F.):

#### Assay of NADPH (enzym.): (abs. at 340 nm, ε = 6.300)

#### Assay (spectrophotom.): (abs. at 260 nm, ε = 15.000)

#### A<sub>260</sub>/A<sub>340</sub>

#### Purity (from HPLC):

#### NADH (HPLC):

#### NADP (enzym.):

#### Na content (flame photometry):

#### Ethanol:

### Specifications

white to slightly yellowish amorphous powder

clear, colourless to slightly yellowish

≤6%

≥79%

≥80%

2.32 – 2.65

≥95.0 area %

≤0.5 area %

≤0.5%

10.0 – 12.0%

≤3%

### Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.