**Product Information**

**β-Nicotinamide adenine dinucleotide 2'-phosphate reduced, tetrasodium salt**

Catalog Numbers N1630, N7505, N6505, and N9910

CAS RN 2646-71-1  
Synonyms: NADPH; β-NADPH; TPNH (Also available as potassium, tris, and cyclohexylammonium salts)  
Analogs: 3'-β-NADPH; α-NADPH; DeaminoNADPH; ThioNADPH

Enzymes employing β-NADPH as a coenzyme include glutathione reductase, diacetyl reductase, dihydrofolate reductase, glutamic dehydrogenase, p-hydroxybenzoate hydroxylase, NADPH-FMN oxidoreductase, nitrate reductase, and thioredoxin reductase. β-NADPH is also involved with cytochrome P450 electron transport systems.²

**Precautions and Disclaimer**  
These products are for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

**Preparation Instructions**  
β-NADPH is soluble in 0.01 M sodium hydroxide (50 mg/ml), yielding a clear, light yellow solution.

**Storage/Stability**  
It is recommended to store Products N1630, N7505, and N6505 desiccated at –20 °C protected from light. Product N9910 can be stored at room temperature. The normal impurities and/or decomposition products are β-NADP and monophosphoadenosine 5'-diphosphoribose.

It is recommended to prepare solutions fresh and use promptly, unless you are sure this is an unnecessary precaution for your work. However, it has been reported that a 0.5 mM solution in 0.02 M NaOH (pH 12.3) showed no loss of purity in a week at 4 °C or –85 °C, but a 13% loss at –20 °C.³

**References**  

NA,DMG,MAM 01/07-1
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