

## NADPH Tetrasodium Salt

(Nicotinamide Adenine-dinucleotide Phosphate reduced tetrasodium salt, Reducing agent)

**Product Number:** 1045

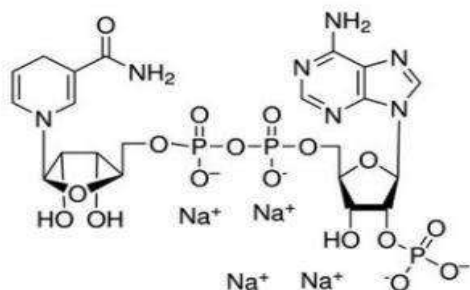
**CAS Number:** [2646-71-1]

**Storage Condition:** Keep well closed at -20°C in a dark and dry place. Hygroscopic

### Description

NADPH Tetrasodium Salt ( $\beta$ -Nicotinamide Adenine Dinucleotide Phosphate reduced tetrasodium salt), a reducing agent for biochemical assays. NADPH is a ubiquitous coenzyme and biological reducing agent functioning as an electron donor in numerous reactions utilizing dehydrogenase and reductase enzymes. Purity is  $\geq 95\%$  NADPH Tetrasodium Salt

### Structural Formula NADPH Tetrasodium Salt



### Specification

Whitish powder, soluble

Molecular weight: 833.35g/mol

Molecular formula  $C_{21}H_{26}N_7Na_4O_{17}P_3$  (Hill Notation)

NADPH provides the reducing equivalents for biosynthetic reactions and the oxidation-reduction involved in protecting against the toxicity of reactive oxygen species (ROS), enabling the regeneration of reduced glutathione (GSH). NADPH is further used for anabolic pathways, such as lipid synthesis, cholesterol synthesis, and fatty acid chain elongation.

### Application

In immune cells, NADPH is also responsible for the development of free radicals, used to destroy pathogens in a process termed the respiratory burst (or oxidative burst). It is the source of reducing equivalents for cytochrome P450 hydroxylation of aromatic compounds, steroids, alcohols, and drugs.

### Quality

For laboratory use only

### Offering Sizes



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Available in 100mg, 250mg and 1g per packaging