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DATASHEET

NADPH tetrasodium salt (reduced form)

Product overview

Name	NADPH tetrasodium salt (reduced form)
Cat No	HB4469
Biological description	Ubiquitous cofactor. Also a biological reducing agent that acts as an electron donor in many biological reactions.
Biological action	Reagent
Description	Reducing agent

Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in water (50 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	β-Nicotinamide adenine dinucleotide 2-phosphate reduced tetrasodium salt
Molecular Weight	833.4
Chemical structure	
Molecular Formula	C ₂₁ H ₂₆ N ₇ O ₁₇ P ₃ Na ₄
CAS Number	2646-71-1
PubChem identifier	52945042
SMILES	<chem>C1C=CN(C=C1C(=O)N)[C@H]2[C@@H]([C@@H]([C@H](O2)COP(=O)([O-])OP(=O)([O-])OC[C@H]3[C@H]([C@H]([C@@H]([C@H]([C@@H](O3)N4C=NC5=C4N=CN=C5N)OP(=O)([O-])OP(=O)([O-])O)O)[Na+].[Na+].[Na+].[Na+])</chem>
InChi	InChI=1S/C21H30N7O17P3.4Na/c22-17-12-19(25-7-24-17)28(8-26-12)21-16(44-46(33,34)35)14(30)11(43-21)6-41-48(38,39)45-47(36,37)40-5-10-13(29)15(31)20(42-10)27-3-1-2-9(4-27)18(23)32;;;/h1,3-4,7-8,10-11,13-16,20-21,29-31H,2,5-6H2,(H2,23,32)(H,36,37)(H,38,39)(
InChiKey	WYWWVJHQDVCHKF-ITGWJZMWSA-J
MDL number	MFCD00036263

References

Dual utilization of NADPH and NADH cofactors enhances xylitol production in engineered *Saccharomyces cerevisiae*

Jo JH *et al* (2015) Biotechnol J 10(12)
PubMedID [26470683](#)

Changes in the electron density of the cofactor NADPH on binding to *E. coli* dihydrofolate reductase

Bajorath J *et al* (1991) Proteins 11(4)
PubMedID [1758881](#)

