CD BioGlyco
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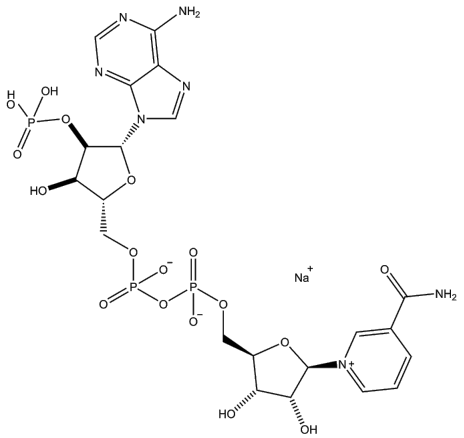
Product Information

NADP sodium salt



Cat. No.: X25-06-LY847

Size: 100 mg; 500 mg; 1 g; 5 g

CAS Number: 1184-16-3

Compound CID: 5702267

Synonym: 1184-16-3; Sodium;[(2*R*,3*R*,4*R*,5*R*)-2-(6-aminopurin-9-yl)-5-[[[[(2*R*,3*S*,4*R*,5*R*)-5-(3-carbamoylpyridin-1-ium-1-yl)-3,4-dihydroxyoxolan-2-yl]methoxy-oxidophosphoryl]oxy-hydroxyphosphoryl]oxymethyl]-4-hydroxyoxolan-3-yl] hydrogen phosphate; Nadide phosphate monosodium; NADP Sodium

This product is for research use only and is not intended for diagnostic use.

Product Information

Description	NADP sodium salt is the sodium salt form of NADP. The sodium salt form is water-soluble and plays a vital role in metabolic pathways. Structurally, it contains two nucleotide units linked by a phosphate group, with an additional phosphate group esterified to the 2' position of the adenosine moiety, aiding in cellular redox balance and biosynthetic reactions.
Molecular Weight	765.39
Molecular Formula	$C_{21}H_{27}N_7NaO_{17}P_3$
IUPAC Name	Sodium;[(2*R*,3*R*,4*R*,5*R*)-2-(6-aminopurin-9-yl)-5-[[[[(2*R*,3*S*,4*R*,5*R*)-5-(3-carbamoylpyridin-1-ium-1-yl)-3,4-dihydroxyoxolan-2-yl]methoxy-oxidophosphoryl]oxy-hydroxyphosphoryl]oxymethyl]-4-hydroxyoxolan-3-yl] hydrogen phosphate
InChI	InChI=1S/C21H28N7O17P3.Na/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;/h1-4,7-8,10-11,13-16,20-21,29-31H,5-6H2,(H7-,22,23,24,25,32,33,34,35,36,37,38,39);/q;+1/p-1/t10-,11-,13-,14-,15-,16-,20-,21-;/m1./s1
InChI Key	JNUMDLCHLVUHFS-QYZPTAICSA-M
SMILES string	C1=CC(=C[N+](=C1)[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](O3)N4C=NC5=C(N=CN=C54)N)OP(=O)(O)[O-])O)O)O)C(=O)N.[Na+]
Form	Solid
Purity	≥98.0%, determined by HPLC.
Solubility	Water: 100 mg/mL (130.65 mM); DMSO: 3.57 mg/mL (4.66 mM)

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Identity	Confirmed by NMR and LC-MS.
Quality Level	Research grade
Applications	NADP sodium salt can be used to study enzyme activity, metabolic pathways, and the transformation of nutrients.
Storage	Store at -20°C.