

## Product Information

### Adenosine monophosphate (sodium)

**Cat. No.:** X24-03-LY081

**Size:** 250 mg; 1 g; 5 g; 10 g; 25 g

**MDL:** MFCD08689634

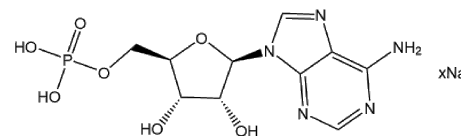
**CAS Number:** 13474-03-8

**PubChem CID:** 20712

**Synonym:** 13474-03-8; AMP (sodium); Sodium 5'-O-(hydroxyphosphinato)adenosine;

Sodium((2*R*, 3*S*, 4*R*, 5*R*)-5-(6-amino-9*H*-purin-9-yl)-3,

4-dihydroxytetrahydrofuran-2-yl)methylphosphate



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

### Product Information

<b>Description</b>	Adenosine monophosphate (sodium) belongs to the class of 2'-O-MOE-phosphoramidite monomers and consists of an adenosine and a phosphate group, as well as a sodium ion bound to the phosphate group.
<b>Molecular Formula</b>	C <sub>10</sub> H <sub>14</sub> N <sub>5</sub> O <sub>7</sub> P
<b>IUPAC Name</b>	Disodium;[(2 <i>R</i> , 3 <i>S</i> , 4 <i>R</i> , 5 <i>R</i> )-5-(6-Aminopurin-9-yl)-3, 4-dihydroxyoxolan-2-yl]methyl phosphate
<b>InChI</b>	InChI=1S/C10H14N5O7P.2Na/c11-8-5-9(13-2-12-8)15(3-14-5)10-7(17)6(16)4(22-10)1-21-23(18, 19)20;;/h2-4, 6-7, 10, 16-17H, 1H2, (H2, 11, 12, 13)(H2, 18, 19, 20);;/q;2*+1/p-2/t4-, 6-, 7-, 10-;;/m1../s1
<b>InChI Key</b>	QGXLVXZRP RRCP-IDIVVRGQSA-L
<b>Canonical SMILES</b>	C1=NC(=C2C(=N1)N(C=N2)C3C(C(C(O3)COP(=O)([O-])[O-])O)N).[Na+].[Na+]
<b>Isomeric SMILES</b>	C1=NC(=C2C(=N1)N(C=N2)[C@H]3[C@@H]([C@@H]([C@H](O3)COP(=O)([O-])[O-])O)O)N).[Na+].[Na+]
<b>Form</b>	White to off-white solid
<b>Purity</b>	≥98%
<b>Applications</b>	Adenosine monophosphate (sodium) can be used as an intracellular energy transfer molecule and participate in cellular metabolic processes.
<b>Storage</b>	Store at -20°C.

### Safety Information



**Personal Protective Equipment**      Gloves, eyeshields, N95 mask

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**Hazard Statements**      H302-H315-H319-H335

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