

Product Information

ATP disodium trihydrate

Cat. No.: X25-06-LY848

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

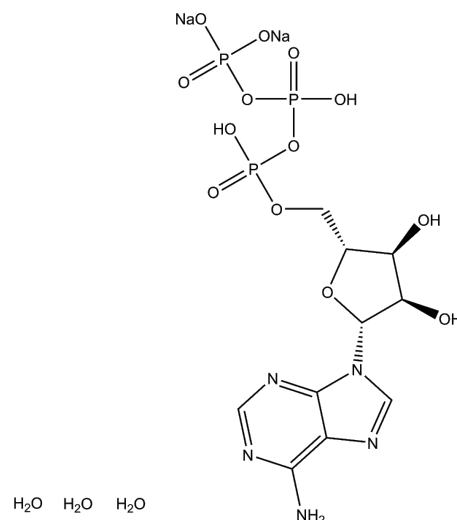
CAS Number: 51963-61-2

Compound CID: 16218877

Synonym: 51963-61-2;

Disodium;[[[(2*R*,3*S*,4*R*,5*R*)-5-(6-aminopurin-9-yl)-3,4-dihydroxyoxolan-2-yl]methoxyhydroxyphosphoryl]oxy-oxidophosphoryl] hydrogen phosphate;hydrate; Adenosine 5'-triphosphate disodium salt hydrate

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



Product Information

Description	ATP disodium trihydrate is the disodium salt of ATP (adenosine triphosphate). The disodium salt form enhances solubility in biological buffers. It consists of an adenosine moiety linked to three phosphate groups, and the trihydrate form ensures stability during storage.
Molecular Weight	605.19
Molecular Formula	C ₁₀ H ₂₀ N ₅ Na ₂ O ₁₆ P ₃
IUPAC Name	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]methoxyhydroxyphosphoryl]oxy-oxidophosphoryl] hydrogen phosphate;hydrate
InChI	InChI=1S/C10H16N5O13P3.2Na.H2O/c11-8-5-9(13-2-12-8)15(3-14-5)10-7(17)6(16)4(26-10)1-25-30(21,22)28-31(23,24)27-29(18,19)20;;;/h2-4,6-7,10,16-17H,1H2,(H,21,22)(H,23,24)(H2,11,12,13)(H2,18,19,20);;;1H2/q;2*+1;/p-2/t4-,6-,7-,10-;;;/m1.../s1
InChI Key	NTBQNBHIXNPRU-MSQVLRGSA-L
SMILES string	C1=NC(=C2C(=N1)N(C=N2)[C@H]3[C@@H]([C@@H]([C@H](O3)COP(=O)(O)OP(=O)([O-])OP(=O)(O)[O-])O)N.O.[Na+].[Na+]
Form	Solid
Purity	≥98.0%, determined by HPLC.
Solubility	Water: 175 mg/mL (289.17 mM); DMSO: 1 mg/mL (1.65 mM)
Identity	Confirmed by NMR and MS.
Quality Level	Research grade
Applications	ATP disodium trihydrate is often used in experiments involving energy metabolism, signal transduction and synthetic reactions.



Storage

Store at -20°C.
