

Product Information

Adenosine-5'-diphosphate trilithium salt

Cat. No.: X24-03-LY035

Size: 5 g; 10 g; 25 g; 100 g; 1 kg

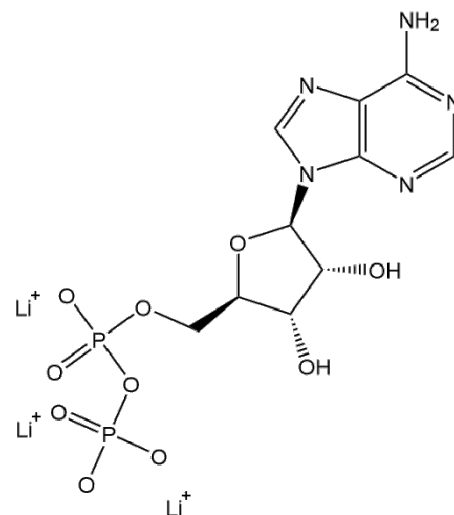
MDL: MFCD00065469

CAS Number: 31008-64-7

PubChem CID: 56841973

Synonym: 31008-64-7; Adenosine-5'-diphosphate, trilithium salt; Lithium ((2*R*, 3*S*, 4*R*, 5*R*)-5-(6-amino-9*H*-purin-9-yl)-3, 4-dihydroxytetrahydrofuran-2-yl)methyl diphosphate

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



Product Information

Description	Adenosine-5'-diphosphate trilithium salt is the trivalent lithium salt form of adenosine diphosphate (ADP).
Molecular Weight	445.00
Molecular Formula	C ₁₀ H ₁₂ Li ₃ N ₅ O ₁₀ P ₂
IUPAC Name	Trilithium;[[[(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]methoxy-oxidophosphoryl] phosphate
InChI	InChI=1S/C10H15N5O10P2.3Li/c11-8-5-9(13-2-12-8)15(3-14-5)10-7(17)6(16)4(24-10)1-23-27(21, 22)25-26(18, 19)20;;;/h2-4, 6-7, 10, 16-17H, 1H2, (H, 21, 22)(H2, 11, 12, 13)(H2, 18, 19, 20);;;/q;3*+1/p-3/t4-, 6-, 7-, 10-;;;/m1.../s1
InChI Key	LZGPPAHUZZSOGHJ-MSQVLRTGSA-K
Canonical SMILES	[Li+].[Li+].[Li+].C1=NC(=C2C(=N1)N(C=N2)C3C(C(C(O3)COP(=O)([O-])OP(=O)([O-])[O-])O)O)N
Isomeric SMILES	[Li+].[Li+].[Li+].C1=NC(=C2C(=N1)N(C=N2)[C@H]3[C@@H]([C@@H]([C@H]3(O3)COP(=O)([O-])OP(=O)([O-])[O-])O)O)N
Form	White to off-white solid
Purity	≥97%
Applications	Adenosine-5'-diphosphate trilithium salt plays an important role in the study of cellular energy metabolism and signaling.
Storage	Store at -20°C.



Safety Information

Personal Protective Equipment	Gloves, eyeshields, N95 mask
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Hazard Statements	H315-H317-H319-H335-H360
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