

Product Information

2-NH₂-ribose for nucleotide synthesis

Cat. No.: X24-04-QCY060

Size: 5 mg; 10 mg; 50 mg; 100 mg; 200 mg

MDL: MFCD00037992

CAS Number: 4546-54-7

Compound CID: 11065406

Synonym: 4546-54-7; 2-Aminopurine riboside; 2-Amino riboside; ChEMBL1651367; 2-amino-9-b-d-ribofuranosylpurine; 2-Amino-9-(b-D-ribofuranosyl)purine; 2-NH-Riboside; Nucleotide synthesis reagent

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

Product Information

Description	2-NH ₂ -ribose is a nucleoside analogue, a riboside containing 2-aminopurine. It plays a role similar to adenine in research on DNA repair and transcription.
Molecular Weight	267.24
Molecular Formula	C ₁₀ H ₁₃ N ₅ O ₄
IUPAC Name	(2R,3R,4S,5R)-2-(2-Aminopurin-9-yl)-5-(hydroxymethyl)oxolane-3,4-diol
InChI	InChI=1S/C10H13N5O4/c11-10-12-1-4-8(14-10)15(3-13-4)9-7(18)6(17)5(2-16)19-9/h1,3,5-7,9,16-18 H,2H2,(H2,11,12,14)/t5-,6-,7-,9-/m1/s1
InChI Key	JVOJULURLCZUDE-JXOAFFINSA-N
Canonical SMILES	<chem>C1=C2C(=NC(=N1)N)N(C=N2)C3C(C(C(O3)CO)O)O</chem>
Isomeric SMILES	<chem>C1=C2C(=NC(=N1)N)N(C=N2)[C@H]3[C@@H]([C@@H]([C@H](O3)CO)O)O</chem>
Form	Powder
Purity	≥98%
Identity	Confirmed by NMR/HPLC/MS.
Applications	2-NH ₂ -ribose can be used to develop antiviral drugs.
Storage	Store at 4°C.