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Product Information

2-(2-Cyclohexylethoxy)adenosine for nucleotide synthesis

Cat. No.: X24-04-QCY043

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

CAS Number: 131933-18-1

Compound CID: 131450

Synonym: 131933-18-1; 2-(2-Cyclohexylethoxy)adenosine; Adenosine, 2-(2-cyclohexylethoxy)-; 2-[2-(cyclohexyl)ethoxy]adenosine; BDBM50208816; DB-312497; 2-(2-Cyclohexylethoxy)-9-pentofuranosyl-9*H*-purin-6-amine; Nucleotide synthesis reagent

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

Product Information

Description	2-(2-Cyclohexylethoxy)adenosine is a potent and selective adenosine A2A receptor agonist with a variety of physiological effects including vasodilation, inhibition of platelet aggregation, and modulation of neurotransmitter release.
Molecular Weight	393.44
Molecular Formula	$C_{18}H_{27}N_5O_5$
IUPAC Name	(2*R*,3*R*,4*S*,5*R*)-2-[6-Amino-2-(2-cyclohexylethoxy)purin-9-yl]-5-(hydroxymethyl)oxolane-3,4-diol
InChI	InChI=1S/C18H27N5O5/c19-15-12-16(22-18(21-15)27-7-6-10-4-2-1-3-5-10)23(9-20-12)17-14(26)13(25)11(8-24)28-17/h9-11,13-14,17,24-26H,1-8H2,(H2,19,21,22)/t11-,13-,14-,17-/m1/s1
InChI Key	VHMUQIWMOXQFBP-LSCFUAHRSA-N
Canonical SMILES	C1CCC(CC1)CCOC2=NC(=C3C(=N2)N(C=N3)C4C(C(C(O4)CO)O)O)N
Isomeric SMILES	C1CCC(CC1)CCOC2=NC(=C3C(=N2)N(C=N3)[C@H]4[C@@H]([C@@H]([C@H](O4)CO)O)O)N
Form	Powder
Purity	≥95%
Identity	Confirmed by NMR/HPLC/MS.
Applications	2-(2-Cyclohexylethoxy)adenosine can be used to modulate various signaling pathways and physiological processes to inhibit cancer cell growth *in vitro* and *in vivo*.
Storage	Store at -20°C.