



Formula: C₁₀H₁₂ClN₅O₄

MW: 301.69

CAS: 146-77-0

MDL:

TNP:

2-chloro-adenosin; Cl AS; Cl-Ado; 6-AMINO-2-CHLOROPURINE RIBOSIDE; 2-CL-ADO; 2-CHLOROADENOSINE; 2-CHLORO-D-ADENOSINE; 2-CADO



LogP: 0.16

LogS: -2.58

Acceptors: 4

Donors: 5

Rotation Bonds: 5

Chiral Centers: 4

N+O: 9

LIPINSKY: 4

IUPAC: 5-(6-amino-2-chloropurin-9-yl)-2-(hydroxymethyl)oxolane-3,4-diol

Smiles: n1(c2c(c(N)nc(n2)Cl)nc1)C1C(C(O)C(O1)CO)O

Specification: Miscellaneous Biochemicals; 13C & 2H Sugars; Biochemistry; Nucleosides and their analogs; Nucleosides, Nucleotides & Related Reagents; Bases & Related Reagents; Carbohydrates & Derivatives; Heterocycles; Nucleotides; Adenosine receptor; Adenosine

6-Amino-2-chloropurine riboside Chemical Properties:

mp 162 C refractive index -50 (C=0.1, H₂O) storage temp. Store at +4C solubility H₂O: 10 mg/mL, clear, colorless CAS DataBase Reference 146-77-0 (CAS DataBase Reference) NIST Chemistry Reference Adenosine, 2-chloro- (146-77-0) Safety Information WGK Germany 3 RTECS AU7357550 6-Amino-2-chloropurine riboside Usage And Synthesis Chemical Properties:

White to Off-White Crystalline Solid Usage A selective A₁-adenosine receptor agonist. Induces apoptosis Biological Activity Metabolically stable analog of adenosine that behaves as an adenosine receptor agonist (K_i values are 300, 80 and 1900 nM for A₁, A_{2A} and A₃ receptors respectively). Anticonvulsive in vivo . 6-Amino-2-chloropurine riboside