

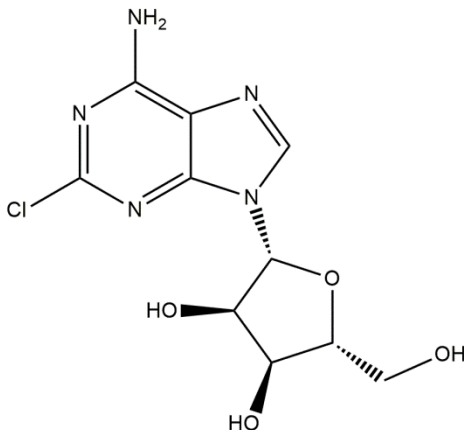
2-Chloroadenosine

04/21

ALTERNATE NAMES: CADO; 2-CADO; 6-Amino-2-chloropurine riboside; (2R,3R,4S,5R)-2-(6-amino-2-chloropurin-9-yl)-5-(hydroxymethyl)oxolane-3,4-diol; (2R,3R,4S,5R)-2-(6-amino-2-chloro-9H-purin-9-yl)-5-(hydroxymethyl)tetrahydrofuran-3,4-diol

CATALOG #: B3129-100 100 mg
B3129-500 500 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₀H₁₂ClN₅O₄

MOLECULAR WEIGHT: 301.69

CAS NUMBER: 146-77-0

APPEARANCE: White to off-white powder

PURITY: ≥ 98%

SOLUBILITY: ~2.5 mg/ml in DMSO

DESCRIPTION: 2-Chloroadenosine is an adenosine receptor agonist. It binds to adenosine A1, A2A, and A3 receptors with K_i values of 300, 80, and 1900 nM, respectively. It significantly decreases seizures in a rat model.

STORAGE TEMPERATURE: -20 °C

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCES:

1. Mathôt, R.A.A., Soudijn, W., Breimer, D.D., et al. Pharmacokinetic-haemodynamic relationships of 2-chloroadenosine at adenosine A1 and A2a receptors in vivo. *British Journal of Pharmacology* 118(2), 369-377 (1996).
2. Ates, N., Ilbay, G., and Sahin, D. Suppression of generalized seizures activity by intrathalamic 2-chloroadenosine application. *Experimental Biology and Medicine* 230(7), 501-505 (2005).

RELATED PRODUCTS:

NECA (Cat. No. B2262)
 AZD-4635 (Cat. No. B2012)
 Istradefylline (Cat. No. B3013)
 Vipadenant (Cat. No. B2734)
 Namodenoson (Cat. No. B2506)

DISCLAIMER: *FOR RESEARCH USE ONLY! Not to be used on humans.*