



Product Information

Product ID C2948

CAS No. 146-77-0

Chemical Name

Synonym 2-Chloroadenosine, 2-CADO, 6-Amino-2-chloropurine riboside

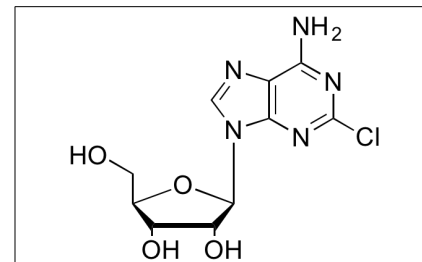
Formula $C_{10}H_{12}ClN_5O_4$

Formula Wt. 301.69

Melting Point 162° C

Purity ≥98%

Solubility Soluble in methanol.



Bulk quantities available upon request

Product ID	Size
C2948	5 mg
C2948	10 mg
C2948	50 mg

Store Temp Ambient

Ship Temp Ambient

Description Chloroadenosine is a nucleoside analog that exhibits anticancer, vasodilatory, and anti-inflammatory activities. Chloroadenosine induces double-stranded DNA breaks and apoptosis in lung cancer cells. This compound acts as an agonist at adenosine receptors, inducing arterial dilation. In animal models of lung injury induced by latex particles and *Escherichia* exposure, chloroadenosine decreases expression of TNF- α .

References Duan HY, Cao JX, Qi JJ, et al. E2F1 enhances 8-chloro-adenosine-induced G2/M arrest and apoptosis in A549 and H1299 lung cancer cells. *Biochemistry (Mosc)*. 2012 Mar;77(3):261-9. PMID: 22803943.

Bender SB, Tune JD, Borbouse L, et al. Altered mechanism of adenosine-induced coronary arteriolar dilation in early-stage metabolic syndrome. *Exp Biol Med (Maywood)*. 2009 Jun;234(6):683-92. PMID: 19307464.

Sakamaki F, Ishizaka A, Urano T, et al. Attenuation by intravenous 2-chloroadenosine of acute lung injury induced by live *Escherichia coli* or latex particles added to endotoxin in the neutropenic state. *J Lab Clin Med*. 2003 Aug;142(2):128-35. PMID: 12960960.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.