

Product Data Sheet

Product Name: 2-Chloroadenine

Cat. No.: GC46539

Chemical Properties

Cas. No. 1839-18-5

SMILES NC1=C2C(N=CN2)=NC(Cl)=N1

Formula C₅H₄ClN₅

M.Wt 169.6

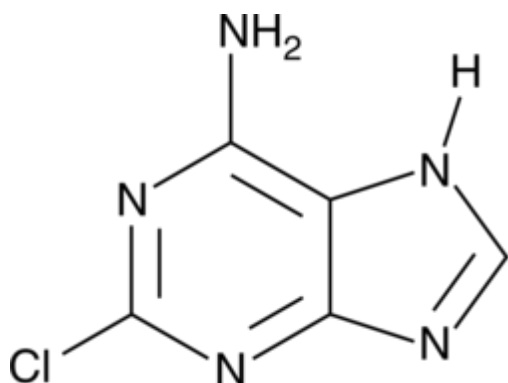
Solubility Ethanol: slightly soluble

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

2-Chloroadenine is a heterocyclic building block that has been used in the synthesis of adenosine antimetabolites with antineoplastic activity.¹ It is also the major catabolite of 2-chloro-2'-deoxyadenosine.²

1. Bauta, W.E., Schulmeier, B.E., Burke, B.J., et al. A new process for antineoplastic agent clofarabine. *Org. Proc. Res. Dev.* 8(6):889-896 (2004).
2. Bontemps, F., Delacauw, A., Cardoen, S., et al. Metabolism and cytotoxic effects of 2-chloroadenine, the major catabolite of 2-chloro-2'-deoxyadenosine.

Caution: Product has not been fully validated for medical applications. For research use only.

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deoxyadenosine Biochem. Pharmacol. 59(10):1237-1243 (2000)

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