

Product Data Sheet

Product Name: 2-Fluoroadenine

Cat. No.: GC46545

Chemical Properties

Cas. No. 700-49-2

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

Formula C₅H₄FN₅

M.Wt 153.1

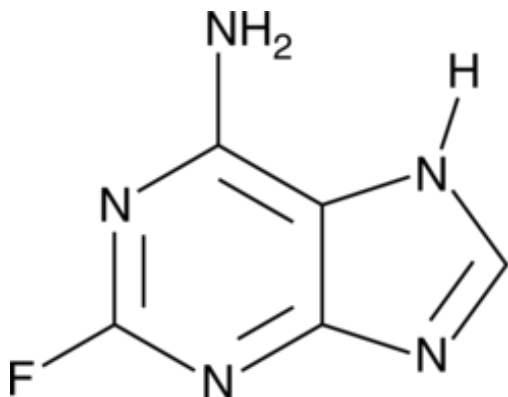
Solubility DMSO: slightly soluble, Ethanol: slightly soluble

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-Fluoroadenine is a heterocyclic building block that has been used in the synthesis of heat shock protein 90 (Hsp90) inhibitors that have anticancer activity *in vitro*.¹ It is also cytotoxic to CEM human leukemia cells with an IC₅₀ value of 0.15 μM.²

1. Llauger, L., He, H., Kim, J., et al. Evaluation of 8-arylsulfanyl, 8-arylsulfoxyl, and 8-arylsulfonyl adenine derivatives as inhibitors of the heat shock protein 90. *J. Med. Chem.* 48(8):2892-2905 (2005)

2. Parker, W.B., Allan, P.W., Shaddix, S.C., et al. Metabolism and metabolic actions of 6-methylpurine and 2-fluoroadenine in human cells. *Biochem. Pharmacol.* 55(10):1673-1681 (1998)

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

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