
Product Data Sheet

Product Name: 2'-Deoxy-2'-fluoroadenosine

Cat. No.: GC61667

Chemical Properties

Cas. No. 64183-27-3

SMILES OC[C@@H]1[C@H]([C@@H](F)[C@H](N2C=NC3=C(N=CN=C32)N)O1)OFormula $C_{10}H_{12}FN_5O_3$ M.Wt 269.23

Solubility Storage 4°C, stored under nitrogen

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'-Deoxy-2'-fluoroadenosine can be used for the synthesis of 2'-Deoxy-2'-fluoro-modified oligonucleotides hybridized with RNA. 2'-Deoxy-2'-fluoroadenosine can be cleaved efficiently by E. coli purine nucleoside phosphorylase (PNP) to the toxic agent 2-fluoroadenine (FAde). 2'-Deoxy-2'-fluoroadenosine shows excellent in vivo activity against tumors expressing E. coli PNP[1].

[1]. A E Hassan, et al. A convenient synthesis of 2'-deoxy-2'-fluoroadenosine; a potential prodrug for suicide gene therapy. Nucleosides Nucleotides Nucleic Acids. 2000 Mar;19(3):559-65.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA
