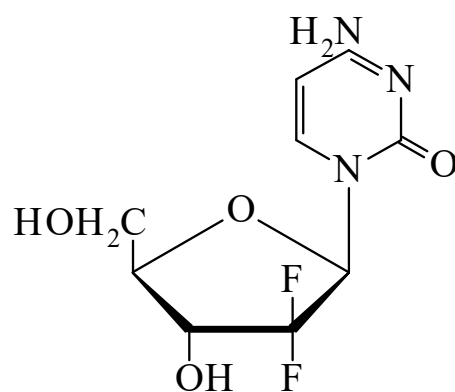




>>Entry Name: Gemcitabine, BAN, INN, USAN

Synonym(s): 2'-Deoxy-2',2'-difluorocytidine, gCl. LY 188011. dFdC



CAS Registry Number: 95058-81-4

Related CAS Registry Numbers(s): 95058-85-8 122111-03-9 122111-04-0 134790-42-4

Molecular Formula: C₉H₁₁F₂N₃O₄

Molecular Weight: 263.2

Accurate Mass: 263.071763

Percentage Composition: C 41.07%; H 4.21%; F 14.44%; N 15.97%; O 24.32%

Biological Use/Importance: Antineoplastic agent (alkylating agent), antiviral agent, antimetabolite. Antineoplastic agent for treatment of lung and pancreatic tumours. Nucleoside transporter substrate

Physical Description: Cryst.

Development Status: Launched 1995 (South Africa, Netherlands). Worldwide equal 89th best selling prescription drug (\$0.56 bn) (Eli Lilly) (2000, Pharma Business)

Optical Rotation: [α]_D +71.51 (c, 0.96 in MeOH)

Calculated Log P Data: Log P -1.54 (calc)

>>Derivative: Hydrochloride

Synonym(s): Gemcitabine hydrochloride, USAN. Gemzar

CAS Registry Number: 122111-03-9

Physical Description: Cryst. (H₂O)

Hazard & Toxicity: Exp. reprod. and fetotoxic effects

References:

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