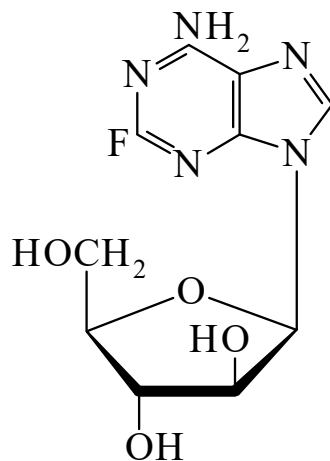




>>Entry Name: Fludarabine, INN

Synonym(s): 9-β-D-Arabinofuranosyl-2-fluoro-9H-purin-6-amine, 9Cl. 9-β-D-Arabinofuranosyl-2-fluoroadenine. Fludara



CAS Registry Number: 21679-14-1

Related CAS Registry Numbers(s): 75607-66-8

Molecular Formula: C₁₀H₁₂FN₅O₄

Molecular Weight: 285.234

Accurate Mass: 285.087333

Percentage Composition: C 42.11%; H 4.24%; F 6.66%; N 24.55%; O 22.44%

Use/Importance: Antineoplastic agent

Physical Description: Cryst. (EtOH aq.)

Development Status: Launched 1991 (US)

Melting Point: Mp 260°

Optical Rotation: $[\alpha]_D^{25} +17$ (c, 0.1 in EtOH)

Calculated Log P Data: Log P -2.73 (calc)

Fluka: 46455

Sigma: F2773

>>Derivative: 5'-Phosphate

Synonym(s): Fludarabine phosphate, BAN, USAN. 2-Fluoro-9-(5-O-phosphono-β-D-arabinofuranosyl)-9H-purin-6-amine, 9Cl. F-ara AMP-2. NSC 312887

CAS Registry Number: 75607-67-9

References:

- Montgomery, J.A. *et al.*, *J. Med. Chem.*, 1969, **12**, 498, (*synth*)
Brockman, R.W. *et al.*, *Cancer Res.*, 1980, **40**, 3610, (*metab, pharmacol*)
Plunkett, W. *et al.*, *Semin. Oncol.*, (Suppl. 7), 1993, **20**, 2, (*rev*)
Rodriguez, G., *Invest. New Drugs*, 1994, **12**, 75, (*rev*)
Adkins, J.C. *et al.*, *Drugs*, 1997, **53**, 1005-1037, (*rev*)