

Product Information

2',2'-Difluorodeoxyuridine

Cat. No.: X24-03-LY679

Size: 100 mg; 250 mg; 500 mg; 1 g; 10 g; 25 g

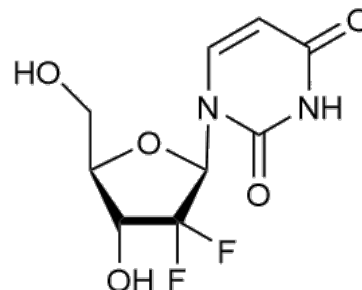
MDL: MFCD00871912

CAS Number: 114248-23-6

Compound CID: 9871558

Synonym: 114248-23-6; dFdU; 2',2'-Difluoro-2'-deoxyuridine

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	2',2'-Difluorodeoxyuridine is a metabolite of Gemcitabine in human plasma and has the ability to inhibit DNA synthesis.
Molecular Weight	264.18
Molecular Formula	C ₉ H ₁₀ F ₂ N ₂ O ₅
IUPAC Name	1-[(2 <i>R</i> ,4 <i>R</i> ,5 <i>R</i>)-3,3-Difluoro-4-hydroxy-5-(hydroxymethyl)oxolan-2-yl]pyrimidine-2,4-dione
InChI	InChI=1S/C9H10F2N2O5/c10-9(11)6(16)4(3-14)18-7(9)13-2-1-5(15)12-8(13)17/h1-2,4,6-7,14,16H,3H2,(H,12,15,17)/t4-,6-,7-/m1/s1
InChI Key	FIRDBEQIJQERSE-QPPQHZFASA-N
Canonical SMILES	C1=CN(C(=O)NC1=O)C2C(C(C(O2)CO)O)(F)F
Isomeric SMILES	C1=CN(C(=O)NC1=O)[C@H]2C([C@@H]([C@H](O2)CO)O)(F)F
Form	Solid
Purity	≥98%
Applications	2',2'-Difluorodeoxyuridine can be used in the development and design of anti-cancer drugs.
Storage	Store at -20°C.