

Product Name : Acelarin
Synonyms : NUC-1031;NUC1031;NUC 1031;CPF-31

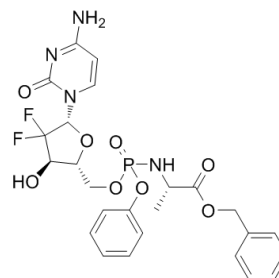
Cat No. : M16121

CAS Number : 840506-29-8

Molecular Formula : C₂₅H₂₇F₂N₄O₈P

Formula Weight : 580.47

Chemical Name : L-Alanine, N-(2'-deoxy-2',2'-difluoro-P-phenyl-5'-cytidyl)-, phenylmethyl ester



Description : A gemcitabine phosphoramidate prodrug that can overcome the key cancer resistance; NUC-1031 is significantly less dependent on deoxycytidine kinase and on nucleoside transporters, and it is resistant to cytidine deaminase-mediated degradation compared with gemcitabine; inhibits L1210 and BxPC-3 cell proliferation with IC₅₀ of 35 nM and 150 nM, respectively; significantly reduces tumor volumes in vivo in pancreatic cancer xenografts. Pancreatic Cancer Phase 3 Clinical

Pathway : Cell Cycle/DNA Damage

Target : Nucleoside Antimetabolite/Analog

Receptor : DNAsynthesis

Solubility : DMSO: ≥ 36 mg/mL

SMILES : C[C@H](NP(OC1=CC=CC=C1)(OC[C@H]2O[C@@H](N3C=CC(N)=NC3=O)C(F)(F)[C@H]2O)=O)C(OCC4=CC=CC=C4)=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Slusarczyk M, et al. J Med Chem. 2014 Feb 27;57(4):1531-42.