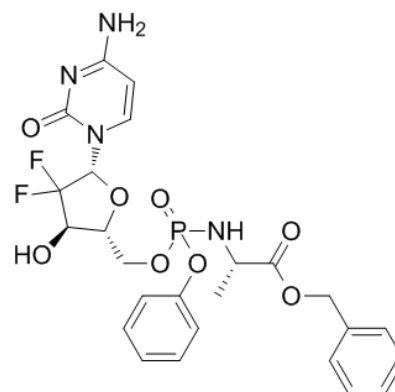


Product Name : Acelarin
Cat. No. : PC-42285
CAS No. : 840506-29-8
Molecular Formula : C₂₅H₂₇F₂N₄O₈P
Molecular Weight : 580.4744484
Target : Nucleoside Antimetabolite/Analog
Solubility : DMSO: ≥ 36 mg/mL



Biological Activity

Acelarin (NUC-1031, CPF-31) is 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.

Acelarin (NUC-1031, CPF-31) inhibits L1210 and BxPC-3 cell proliferation with IC₅₀ of 35 nM and 150 nM, respectively. Acelarin (NUC-1031, CPF-31) significantly reduces tumor volumes in vivo in pancreatic cancer xenografts.

References

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

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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