Product Data Sheet

Product Name: DNA polymerase-IN-6 formic
Cat. No.: GC78865

Chemical Properties

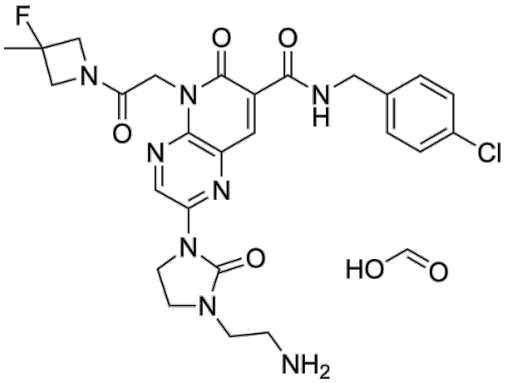
Cas. No.

Formula	$C_{27}H_{30}ClFN_8O_6$	M.Wt	617.03
Solubility	DMSO: 100 mg/mL (162.07 mM; Need ultrasonic)	Storage	Store at -20°C

General tips: For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.

Shipping Condition: Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Product Data Sheet

DNA polymerase-IN-6 formic is an antiviral agent and a DNA polymerase inhibitor. DNA polymerase-IN-6 formic inhibits the replication of HCMV, HSV-1, HSV-2 and EBV. DNA polymerase-IN-6 formic exhibits low cytotoxicity in mammalian cells. DNA polymerase-IN-6 formic can be used in research related to viral infections [1].

In Vitro, DNA polymerase-IN-6 (compound 27) formic inhibits the replication of HCMV in MRC-5 cells with an EC50 value of 0.33 μM; additionally, it shows no cytotoxicity against MRC-5 cells at concentrations up to 40 μM[1]. DNA polymerase-IN-6 formic inhibits plaque formation of HCMV in HFF-1 cells, with an EC50 value of 0.21 μM[1]. DNA polymerase-IN-6 formic inhibits the HCMV Davis strain in MRC-5 cells with an EC50 of 0.20 μM, and shows no cytotoxicity against MRC-5 cells at concentrations up to 40 μM[1]. DNA polymerase-IN-6 formic inhibits the replication of HSV-1 in Vero cells with an EC50 of 1.9 μM, and shows no cytotoxicity against Vero cells at concentrations up to 40 μM[1]. DNA polymerase-IN-6 formic inhibits the replication of HSV-2 in Vero cells with an EC50 of 0.76 μM, and shows no cytotoxicity against Vero cells[1]. DNA polymerase-IN-6 formic inhibits EBV replication in B95-8 marmoset B cells, with an EC50 of 0.066 μM, a CC50 of 5.5 μM in B95-8 cells, and a selectivity index of 83[1].

References:

[1]. Bai B, et al., Discovery of Novel Pyrido[2,3-b]Pyrazine Human Cytomegalovirus Polymerase Inhibitors with Broad Spectrum Antiherpetic Activity and Reduced hERG Inhibition. ChemMedChem. 2024 Dec 10:e202400629.

Caution: Product has not been fully validated for medical applications. For research use only.
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