Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Fludarabine (phosphate)

Catalog No: tcsc0861

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
75607-67-9

Formula:
$C_{10}H_{13}FN_5O_7P$

Pathway:
Cell Cycle/DNA Damage

Target:
Nucleoside Antimetabolite/Analog

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 100 mg/mL (273.82 mM); H2O : 5 mg/mL (13.69 mM; Need ultrasonic)

Observed Molecular Weight:
365.21

Product Description

Fludarabine (phosphate) is an analogue of adenosine and deoxyadenosine, which is able to compete with dATP for incorporation into DNA and inhibit DNA synthesis.

In Vitro:

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Fludarabine phosphate significantly reduces the cell viability in a dose-dependent manner. Fludarabine phosphate exhibits no effect in all tested concentrations when combined with either PBS or control vector, ACE-GFP. Fludarabine phosphate causes a significant decrease in cell viability for 24 h after exposure to ACE-PNP when compared to PBS and ACE-GFP at concentrations of 2.5, 5 and 10 μg/mL[2].

In Vivo: F-araAMP (100 mg/kg given 15 times, 167 mg/kg given 9 times, or 250 mg/kg given 3 times, i.p.) leads to complete regressions of all tumors and cures of all mice. Parental D54 tumors (i.e. without E. coli PNP) are not sensitive to treatment with F-araAMP. Intratumoral injection of Ad/PNP followed by IT F-araAMP can elicit a substantial regressive effect on otherwise refractory solid tumors in a fashion substantially superior to viral PNP transduction followed by systemic prodrug administration[1]. The comparison of ACE-GFP/fludarabine phosphate with ACE-GFP/PBS demonstrats that fludarabine phosphate alone has no growth inhibitory activity on KU-19-19 tumors[2].