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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Fludarabine-Cl

Cat. No.: HY-145443

CAS No.: 2734853-80-4

Molecular Formula: $C_{10}H_{11}ClFN_5O_3$

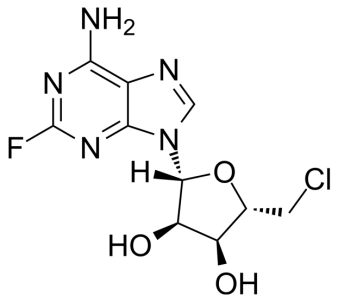
Molecular Weight: 303.68

Target: Others

Pathway: Others

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H_2O : 5 mg/mL (16.46 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.2929 mL	16.4647 mL	32.9294 mL
	5 mM	0.6586 mL	3.2929 mL	6.5859 mL
	10 mM	0.3293 mL	1.6465 mL	3.2929 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 2 mg/mL (6.59 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Fludarabine-Cl has an inhibitory effect on RNA adenosine deaminase 1 (ADAR1) with an IC_{50} of 0.87 μM and can be used to prevent and/or study cancer or tumor-related diseases[1].

IC_{50} & Target

ADAR1
0.87 μM (IC_{50})

In Vitro

Fludarabine-Cl inhibits tumor cell proliferation, and has only a weak inhibitory effect on normal RWPE1 and HEK293 cells. The IC_{50} for MDA-MB-23, RPMI822, HL60 and K562 is 0.383, 0.149, 0.544 and 0.609 μM[1].
Fludarabine-Cl binds to ADAR1 protein with a K_D of 7.24 μM[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Fludarabine-Cl (104.9-400 mg/kg, intraperitoneal injection, twice a day, for one day) has some toxicity in mice, with an LD^{50}

of 186.5641 mg/kg[1].
Fludarabine-Cl (10-20 mg/kg, intraperitoneal injection, twice a day, for 29 days) inhibits tumor proliferation in mice[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	ICR mice[1]
Dosage:	104.9, 131.1, 163.8, 204.8, 256, 320, 400 mg/kg; twice a day; one day
Administration:	Intraperitoneal injection (i.p.)
Result:	Was somewhat toxic and could cause death in mice at higher doses, but no abnormality in organs.

Animal Model:	BALB/c mice induced by Du-145[1]
Dosage:	10, 20 mg/kg; twice a day; 29 days
Administration:	Intraperitoneal injection (i.p.)
Result:	Inhibited tumor growth and had no effect on mouse body weight.

REFERENCES

[1]. Polysubstituted purine compound and preparation method and application thereof. CN113549076A.

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