Pelcitoclax

Cat. No.: HY-109185

CAS No.: 1619923-36-2

Molecular Formula: $C_{57}H_{66}ClF_4N_6O_{11}PS_4$

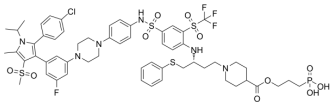
Molecular Weight: 1281.85

Target: Bcl-2 Family; Apoptosis

Pathway: Apoptosis

Storage:

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



SOLVENT & SOLUBILITY

In Vitro

DMSO : 200 mg/mL (156.02 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.7801 mL	3.9006 mL	7.8012 mL
	5 mM	0.1560 mL	0.7801 mL	1.5602 mL
	10 mM	0.0780 mL	0.3901 mL	0.7801 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 5 mg/mL (3.90 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 5 mg/mL (3.90 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Pelcitoclax (APG-1252) is a potent Bcl-2/Bcl-xl inhibitor with antineoplastic and pro-apoptotic effects[1].

In Vitro

APG-1252 changes to the reactive metabolite named APG-1252-M1, which has remarkable antitumor effects in acute myeloid leukemia[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Pelcitoclax (APG-1252; 25-100 mg/kg; i.v.; once a day; for 10 days) treatment inhibits xenograft tumor growth more obviously than the other groups[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	BALB/c athymic nude mice (male, 4-6weeks) injected with N87 cells[1]
Dosage:	25 mg/kg, 50 mg/kg, and 100 mg/kg
Administration:	Intravenous injection; once a day; for 10 days
Result:	Inhibited xenograft tumor growth more obviously than the other groups.

REFERENCES

[1]. Hanjie Yi, et al. Bcl-2/Bcl-xl inhibitor APG-1252-M1 is a promising therapeutic strategy for gastric carcinoma. Cancer Med. 2020 Jun;9(12):4197-4206.

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