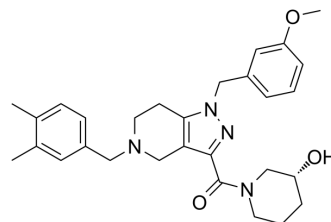


Bax activator-1

Cat. No.:	HY-122760		
CAS No.:	1638526-94-9		
Molecular Formula:	C ₂₉ H ₃₆ N ₄ O ₃		
Molecular Weight:	488.62		
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 : 250 mg/mL (511.65 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.0466 mL	10.2329 mL	20.4658 mL
	5 mM	0.4093 mL	2.0466 mL	4.0932 mL
	10 mM	0.2047 mL	1.0233 mL	2.0466 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (4.26 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (4.26 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (4.26 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Bax activator-1 (compound 106) is a Bax activator that induces Bax-dependent tumor cell apoptosis^[1].

IC₅₀ & Target

Bax

In Vitro

Bax activator-1 (20-80 μM; 48 hours) induces Bax-dependent tumor cell apoptosis in a dose-dependent fashion^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Apoptosis Analysis^[1]

Cell Line:	Lewis Lung Carcinoma tumor cells, human non-small cell lung carcinoma A549 cells, human pancreatic carcinoma Panc-1 cells
Concentration:	20 μ M, 40 μ M , 60 μ M , 80 μ M
Incubation Time:	48 hours
Result:	Induced apoptotic cell death in the murine Lewis Lung Carcinoma (LLC), human non-small cell lung carcinoma A549 cells and PANC-1 human pancreatic carcinoma cells in a dose-dependent fashion.

In Vivo

Bax activator-1 (40 mg/kg; given i.p., each day for 13 days) inhibits lung tumor growth in C57BL/6 female mice^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Eight-week old C57BL/6 female mice (with Lewis Lung Carcinoma tumor cells) ^[1]
Dosage:	40 mg/kg
Administration:	Given i.p., each day for 13 days
Result:	Exhibited anti-tumor activity as a single-agent.

REFERENCES

[1]. Zhao G, et al. Activation of the proapoptotic Bcl-2 protein Bax by a small molecule induces tumor cell apoptosis. Mol Cell Biol. 2014 Apr;34(7):1198-207.

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

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