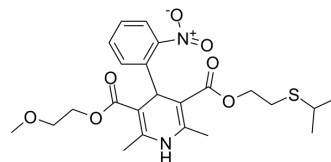


YG1702

Cat. No.:	HY-156443		
CAS No.:	724737-08-0		
Molecular Formula:	C ₂₃ H ₃₀ N ₂ O ₇ S		
Molecular Weight:	478.56		
Target:	Aldehyde Dehydrogenase (ALDH)		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (208.96 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mM	2.0896 mL	10.4480 mL
5 mM	0.4179 mL	2.0896 mL	4.1792 mL		
10 mM	0.2090 mL	1.0448 mL	2.0896 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: ≥ 2.5 mg/mL (5.22 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (5.22 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

YG1702 is a potent ALDH18A1-specific inhibitor. YG1702 attenuates the growth of MYCN-amplified NB and down-regulates MYCN. YG1702 physically interacts with ALDH18A1 with a high affinity and might potentially affect its enzymatic activity^[1].

In Vivo

YG1702 (intraperitoneal injection (I.P.), 45 mg/kg, once every 3 days, three times) inhibits the growth of the xenografts in tumor-bearing mice^[1].

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

Animal Model:	NOD/SCID mice (5-6-week-old female) ^[1]
Dosage:	45 mg/kg

Administration:	Intraperitoneal injection (I.P.), once every 3 days, three times
Result:	Inhibited the growth of the xenografts in tumor-bearing mice.

REFERENCES

[1]. Guo YF, et al. Inhibition of the ALDH18A1-MYCN positive feedback loop attenuates MYCN-amplified neuroblastoma growth. Sci Transl Med. 2020 Feb 19;12(531):eaax8694.

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

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