## **Glabrescione B**

Cat. No.:	HY-122590			
CAS No.:	65893-94-9			
Molecular Formula:	C <sub>27</sub> H <sub>30</sub> O <sub>6</sub>			
Molecular Weight:	450.52			
Target:	Gli			
Pathway:	Stem Cell/Wnt			
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 : 100 mg/mL (2	DMSO : 100 mg/mL (221.97 mM; Need ultrasonic)						
		Solvent Mass Concentration	1 mg	5 mg	10 mg			
	Preparing Stock Solutions	1 mM	2.2197 mL	11.0983 mL	22.1966 mL			
		5 mM	0.4439 mL	2.2197 mL	4.4393 mL			
	10 mM	0.2220 mL	1.1098 mL	2.2197 mL				
	Please refer to the so	lubility information to select the ap	propriate solvent.					
In Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (5.55 mM); Suspended solution; Need ultrasonic						
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.55 mM); Suspended solution; Need ultrasonic						
		3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.55 mM); Clear solution						

BIOLOGICAL ACTIVITY				
Description	Glabrescione B is the first compound that binds the Hedgehog (Hh) modulator Gli1. Glabrescione B impairs its activity by interfering with Gli1-DNA interaction. Glabrescione B inhibits the growth of Hedgehog-dependent tumor cells, the self-renewal ability, and clonogenicity of tumor-derived stem cells <sup>[1][2]</sup> .			
IC <sub>50</sub> & Target	Gli1-DNA Interaction <sup>[1]</sup>			
In Vitro	Glabrescione B (5 $\mu$ M; 24-72 hours) inhibits the growth of Gli-dependent basal cell carcinoma <sup>[2]</sup> .			

## Product Data Sheet



	<b>I; 24-48 hours) decreases Gli1 mRNA expression levels<sup>[2]</sup>.</b> ntly confirmed the accuracy of these methods. They are for reference only.
Cell Proliferation Assay <sup>[</sup>	1]
Cell Line:	ASZ001 BCC cells
Concentration:	5 μΜ
Incubation Time:	24-72 hours
Result:	Basal cell carcinoma cell proliferation was impaired.
Western Blot Analysis <sup>[1]</sup>	
Cell Line:	ASZ001 BCC cells
Concentration:	1-10 μΜ
Incubation Time:	24-48 hours
Result:	Gli1 mRNA expression levels was decreased.

## REFERENCES

[1]. Ingallina C, et al. Polymeric glabrescione B nanocapsules for passive targeting of Hedgehog-dependent tumor therapy in vitro. Nanomedicine (Lond). 2017;12(7):711-728.

[2]. Infante P, et al. Gli1/DNA interaction is a druggable target for Hedgehog-dependent tumors. EMBO J. 2015;34(2):200-217.

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

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