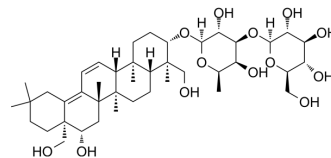


## Saikosaponin B1

Cat. No.:	HY-N0247
CAS No.:	58558-08-0
Molecular Formula:	C <sub>42</sub> H <sub>68</sub> O <sub>13</sub>
Molecular Weight:	780.98
Target:	Smo
Pathway:	Stem Cell/Wnt
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (128.04 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.2804 mL	6.4022 mL	12.8044 mL
				5 mM	0.2561 mL	1.2804 mL	2.5609 mL
				10 mM	0.1280 mL	0.6402 mL	1.2804 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 100 mg/mL (128.04 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 10 mg/mL (12.80 mM); Clear solution; Need ultrasonic						
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 10 mg/mL (12.80 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	Saikosaponin B1 is a bioactive constituent of Radix Bupleuri with anticancer activity. Saikosaponin B1 significantly inhibits tumor growth in Medulloblastoma (MB) model by inhibiting the Hedgehog pathway through targeting SMO <sup>[1]</sup> .
-------------	--

### REFERENCES

[1]. Luo J, et al. Saikosaponin B1 and Saikosaponin D inhibit tumor growth in medulloblastoma allograft mice via inhibiting the Hedgehog signaling pathway [published online ahead of print, 2022 Feb 16]. J Nat Med. 2022;10.1007/s11418-022-01603-8.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA