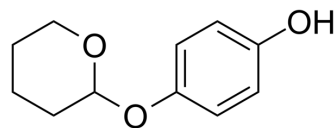


## Deoxyarbutin

<b>Cat. No.:</b>	HY-B1461		
<b>CAS No.:</b>	53936-56-4		
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>14</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	194.23		
<b>Target:</b>	Tyrosinase		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	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 (514.85 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.1485 mL	25.7427 mL	51.4854 mL
	5 mM	1.0297 mL	5.1485 mL	10.2971 mL
	10 mM	0.5149 mL	2.5743 mL	5.1485 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 (12.87 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (12.87 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (12.87 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Deoxyarbutin is a new effective lighten ingredient, can effectively inhibit tyrosinase activity and melanin synthesis to get significant and lasting lightening effect.

### REFERENCES

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[1]. Yang CH, et al. Determination of the thermodegradation of deoxyArbutin in aqueous solution by high performance liquid chromatography. Int J Mol Sci. 2010 Oct 15;11(10):3977-3987.

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

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