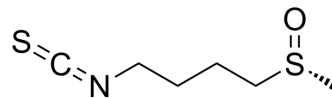


(R)-Sulforaphane

Cat. No.:	HY-13755A
CAS No.:	142825-10-3
Molecular Formula:	C ₆ H ₁₁ NOS ₂
Molecular Weight:	177.29
Target:	Keap1-Nrf2
Pathway:	NF-κB
Storage:	-20°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 (564.05 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	5.6405 mL	28.2024 mL	56.4048 mL
				5 mM	1.1281 mL	5.6405 mL	11.2810 mL
				10 mM	0.5640 mL	2.8202 mL	5.6405 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (14.10 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (14.10 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (14.10 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	(R)-Sulforaphane (L-Sulforaphane) is a highly potent inducer of the Keap1/Nrf2/ARE pathway. (R)-Sulforaphane is a far more potent inducer of the carcinogen-detoxifying enzyme systems in rat liver and lung than the S-isomer ^{[1][2]} .
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REFERENCES

[1]. De Nicola GR, et al. Novel gram-scale production of enantiopure R-sulforaphane from Tuscan black kale seeds. *Molecules*. 2014 May 27;19(6):6975-86.

[2]. Abdull Razis AF, et al. The natural chemopreventive phytochemical R-sulforaphane is a far more potent inducer of the carcinogen-detoxifying enzyme systems in rat liver and lung than the S-isomer. *Int J Cancer*. 2011 Jun 15;128(12):2775-82.

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

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