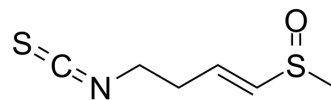


Sulforaphene

Cat. No.:	HY-N2450
CAS No.:	592-95-0
Molecular Formula:	C ₆ H ₉ NOS ₂
Molecular Weight:	175.27
Target:	Apoptosis; EGFR; ERK; NF-κB
Pathway:	Apoptosis; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; MAPK/ERK Pathway; Stem Cell/Wnt; 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 (570.55 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		5.7055 mL	28.5274 mL	57.0548 mL
		5 mM		1.1411 mL	5.7055 mL	11.4110 mL
		10 mM		0.5705 mL	2.8527 mL	5.7055 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (14.26 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (14.26 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (14.26 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	Sulforaphene, isolated from radish seeds, exhibits an ED ₅₀ against velvetleaf seedlings approximately 2 x 10 ⁻⁴ M. Sulforaphene promotes cancer cells apoptosis and inhibits migration via inhibiting EGFR, p-ERK1/2, NF-κB and other signals ^{[1][2][3][4]} .
--------------------	--

REFERENCES

[1]. Kuang P, et al. Separation and purification of sulforaphene from radish seeds using macroporous resin and preparative high-performance liquid chromatography. Food

Chem. 2013 Jan 15;136(2):342-7.

[2]. Anita M. Brinker, et al. Herbicidal activity of sulforaphene from stock (*Matthiola incana*). *Journal of Chemical Ecology*. Vol. 19. No. 10, 1993.

[3]. Mondal A, et al. Sulforaphene promotes Bax/Bcl2, MAPK-dependent human gastric cancer AGS cells apoptosis and inhibits migration via EGFR, p-ERK1/2 down-regulation. *General Physiology and Biophysics*, 27 Nov 2015, 35(1):25-34.

[4]. Ren K, et al. Sulforaphene enhances radiosensitivity of hepatocellular carcinoma through suppression of the NF- κ B pathway. *J Biochem Mol Toxicol*. 2017 Aug;31(8).

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

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444

Email: customerservice@lifetechindia.com Website: www.lifetechindia.com