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Product Information

Product ID	S881011			_	
CAS No.	72741-87-8		L ΟΙ		
Chemical Name	(1S,2R,8R,8aR)-1,2,3,5,6,7,8,8a-octahydroindolizine-1,2,8- triol				
Synonym	SwainMoia, (1S,2R,8R,8aR)-octahydroindolizine-1,2,8-triol, D-Swainsonine, 8A,B-INDOLIZIDINE-1,2A,8B-TRIOL,SWAINSONINE,Tridolgosir, SwainMoia, (1S,2R,8R,8aR)-octahydro-1,2,8-indolizinetriol,		N	OH	
Formula	C ₈ H ₁₅ NO ₃				
Formula Wt.	173.20	Pricing	and Ava	allability	
Melting Point		Bulk quanit	ites available	e upon request	
Purity	≥98%	Product ID	Size	List Price	
Solubility	10 mg/ml in water, 5 mg/ml in	S881011	1 mg	\$126.80	
	methanol, Soluble in ethanol, DMSO, DMF	S881011	5 mg	\$529.20	
	(~10 mg/ml), and PBS (pH=7.2)	S881011	10 mg	\$953.70	
Store Temp	(0.25 mg/ml). -20°C	0001011	ro ng	<i>4000.70</i>	
Ship Temp					
	Swainsonine is an indolizidine alkaloid isolated from the fungus metharhizium anisopliae. It is an antineoplastic immunomodulator. Swainsonine restores the capacities of immunodeficient mice such that the growth and metastasis of implanted tumors are inhibited. The anti-metastatic effect may be the result of the stimulation of lymphocyte proliferation and augmentation of natural killer cell reactivity of the immune system. Swainsonine has been found to induce apoptosis in esophageal squamous cell carcinoma and human lung cancer cells as well as				

C6 glioma cells. In addition to its anti-proliferative effect on tumor cells, swainsonine has been found to potentiate cytotoxic effects of chemotherapeutic drugs such as paclitaxel and cisplatin.

References Mohla S, Humphries MJ, White SL, et al. Swainsonine: a new antineoplastic immunomodulator. J Natl Med Assoc. 1989, 81 (10):1049-56. PMID: 2509720 PMCID: PMC2571577.

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Dennis JW. Effects of swainsonine and polyinosinic:polycytidylic acid on murine tumor cell growth and metastasis. Cancer Res. 1986, ;46(10):5131-6. PMID: 3093060.

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Humphries MJ, Matsumoto K, White SL, et. al. Augmentation of murine natural killer cell activity by swainsonine, a new antimetastatic immunomodulator. Cancer Res. 198, 48(6):1410-5. PMID: 3125963

Li Z, Huang Y, Dong F, et al. Swainsonine promotes apoptosis in human oesophageal squamous cell carcinoma cells in vitro and in vivo through activation of mitochondrial pathway. J Biosci. 2012, 37(6):1005-16. PMID: 23151791

Li Z, Xu X, Huang Y, et al. Swainsonine activates mitochondria-mediated apoptotic pathway in human lung cancer A549 cells and retards the growth of lung cancer xenografts. Int J Biol Sci. 2012, 8(3):394-405. doi: 10.7150/ijbs.3882. Epub 2012 Feb 24.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.

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S881011	1 mg	\$126.80
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S881011	10 mg	\$953.70