

List of All Chemicals

P Cephalotaxus harringtonii (Cephalotaxaceae)

Common name(s)

Japanese Plum Yew

How used

Medicinal

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Chemical	Part	All <input type="button" value="v"/>	Low PPM	High PPM	StdDev	*Reference
11-HYDROXYCEPHALOTAXINE	Plant		--	--		*
3-EPISCHELHAMERICINE	Bark		--	--		*
CEPHALOTAXINE	Tissue Culture		0.8	28.5		*
Activities (1)						
Antileukemic Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.						
CEPHALOTAXINONE	Plant		--	--		*
DEOXYHARRINGTONINE	Plant		--	--		*
Activities (2)						
Antileukemic						
Antitumor Martindale's 29th						
DESMETHYLCEPHALOTAXINE	Leaf		--	--		*
DRUPACINE	Plant		--	--		*
HARRINGTONINE	Tissue Culture		--	0.2		*
Activities (8)						
Anticarcinomic 0.5-1 ppm						
Antileukemic (2 ppm), 2-4 mg Martindale's 29th						
Antimelanomic ED50=0.077 ug/ml J. Ethnopharmacology, 32: 117.						
Antisarcinomic ED50=0.01 ug/ml J. Ethnopharmacology, 32: 117.						
Antitumor (Breast) ED50=0.017 ug/ml J. Ethnopharmacology, 32: 117.						
Antitumor (Colon) ED50=0.014 ug/ml J. Ethnopharmacology, 32: 117.						
Antitumor (Lung) ED50=0.036 ug/ml J. Ethnopharmacology, 32: 117.						
DNA-Synthesis-Inhibitor Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.						
HARRINGTONINE	Fruit		--	500.0		*
Activities (8)						
Anticarcinomic 0.5-1 ppm						
Antileukemic (2 ppm), 2-4 mg Martindale's 29th						
Antimelanomic ED50=0.077 ug/ml J. Ethnopharmacology, 32: 117.						
Antisarcinomic ED50=0.01 ug/ml J. Ethnopharmacology, 32: 117.						
Antitumor (Breast) ED50=0.017 ug/ml J. Ethnopharmacology, 32: 117.						
Antitumor (Colon) ED50=0.014 ug/ml J. Ethnopharmacology, 32: 117.						
Antitumor (Lung) ED50=0.036 ug/ml J. Ethnopharmacology, 32: 117.						
DNA-Synthesis-Inhibitor Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.						

HOMO-ERYTHRINA-ALKALOID	Tissue Culture	0.2	6.5	*
HOMODEOXYHARRINGTONINE	Tissue Culture	--	--	*
HOMO HARRINGTONINE	Tissue Culture	--	1.2	*

Activities (12)

Anticarcinomic 0.25-1 ppm	
Antileukemic 1 ppm	
Antimalarial	Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp.
Antimelanomic ED50=0.045 ug/ml	J. Ethnopharmacology, 32: 117.
Antisarcomic ED50=2.15 ug/ml	J. Ethnopharmacology, 32: 117.
Antitumor	Vlietinck, A.J. and Dommissie, R.A. eds. 1985. <i>Advances in Medicinal Plant Research</i> . Wiss. Verlag. Stuttgart.
Antitumor (Breast) ED50=0.012 ug/ml	J. Ethnopharmacology, 32: 117.
Antitumor (Colon) ED50=0.0076 ug/ml	J. Ethnopharmacology, 32: 117.
Antitumor (Lung) ED50=0.019 ug/ml	J. Ethnopharmacology, 32: 117.
Hypotensive	Martindale's 29th
MDR-Inhibitor	Qian, Q. J., Han, J. L., Yan, W. W., Yang, C. Z., Han, D. S., Shi, H., Hao, Y. 1996. A Comparative Study on the Mechanism of Homoharringtonine (HHI) and Melphalan (MEL) Resistance in K562/H20 and K562/MEL Cell Lines. <i>Zhonghua Xueyexue Zazhi</i> ,17(7):354-356.
Tachycardic	Martindale's 29th

ISOHARRINGTONINE	Tissue Culture	0.2	1.5	*
------------------	----------------	-----	-----	---

Activities (2)

Anticancer	
Antileukemic	Martindale's 29th

KAYAFLAVONE	Plant	--	--	*
SCHELHAMMERA-ALKALOID	Stem	--	--	*
SCHELHAMMERA-ALKALOID-B-METHYL-ETHER	Stem	--	--	*