

Biological Activities for Extracts of Chuchuhuasi (*Maytenus krukovii*)

Plant Part – Origin	Activity Tested For	Type Extract	Test Model	Dosage	Result	Notes/Organism Tested	Ref #
Root Bark Not Stated	Antitumor Activity	Not Stated	Not Stated	Not Stated	Active		T04489
Bark Colombia	Analgesic Activity	ETOH (95%) Ext	SC Mouse	50.0 mg/kg	Active		M00960
Bark Colombia	Anti-inflammatory Activity	ETOH (95%) Ext	SC Rat	200.0 mg/kg	Active	vs. carrageenin-induced pedal edema.	M00960
Root Bark Not Stated	Anti-inflammatory Activity	Not Stated	Not Stated	Not Stated	Active		T04489
Bark Venezuela	Immunostimulant Activity	Bark MeOH Ext	IV Mouse Female	50.0 mg/kg		vs. rate of clearance of colloidal carbon.	A05936
Leaf Venezuela	Immunostimulant Activity	Leaves	IV Mouse Female Oral Mouse Female	50.0 mg/kg 250.0 mg/kg	Active	vs. rate of clearance of colloidal carbon.	A05936

Biological Activities for Compounds of Chuchuhuasi (*Maytenus krukovii*)

Compound Tested	Activity Tested For	Test Model	Dosage	Result	Notes/Organism Tested	Ref #
Macrocarpins A-D	Cytotoxic Activity	In vitro	IC50=0.4-5.2 microM	Active	Four tumor cell lines.	H25843
3-oxofriedelan-29-oic acid	Cytotoxic Activity	In vitro	ED50=0.21 mcg/ml	Active	A-549 lung carcinoma cell line.	BS1003
Beta-dihydroagarofuran sesquiterpenes	Antitumor Activity	In vitro	Not Stated	Active	Four tumor cell lines.	H25315

Compound Tested	Activity Tested For	Test Model	Dosage	Result	Notes/Organism Tested	Ref #
Tingenone	Antimicrobial Activity	Agar Plate	Not Stated	Active	<i>Bacillus cereus</i> <i>B. subtilis</i> <i>Sarcina lutea</i> <i>Staphylococcus aureus</i> <i>Microsporium gypseum</i> <i>Klebsiella pneumoniae</i>	BS1006
Krukovine	Antiplasmodial Activity	In vitro	IC50=0.44 mcg/ml IC50=0.022 mcg/ml	Active Active	K1 chloroquine-resistant <i>P. falciparum</i> . T9-96 chloroquine-sensitive <i>P. falciparum</i> .	BS1009
Tingenone	Antiparasitic Activity	In vitro	30 microM	Active	<i>Trypanosoma cruzi</i> <i>Crithidia fasciculata</i>	BS1007
Dihydro-beta-agarofuran sesquiterpenes	Antiparasitic Activity	In vitro	Not Stated	Active	Multi-drug resistant Leishmania line.	BS1004
Tingenone	Insecticidal Activity	Larvae	Not Stated	Weak Activity	Codling moth larvae (<i>Cydia pomonella</i>).	BS1005
Canophyllol	Human Leucocyte Elastase Inhibitor	Cell Culture	IC50=2.5 microM	Active		BS1008

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