

Part - Origin	Activity Tested For	Type Extract	Test Model	Dosage	Result	Notes/Organism tested	Ref #
Leaf Panama	Anesthetic Activity	MeOH Ext	IP Rat	770.0 mg/kg	Inactive		T14754
Leaf Italy	Anti-inflammatory Activity	Hexane Ext Methanol Ext Chloroform Ext	External Mice	Not Stated Not Stated ID50=108-498 mcg/cm2	Active Active Strong Activity	vs. Croton oil-induced ear edema. The chloroform extract activity was comparable to indomethacin (93 mcg/cm2).	BV1005
Not Stated Cuba	Cytostatic Activity	Aqueous Ext Alcoholic Ext Ketonic Ext	Not Stated	Not Stated	Active		BV1007
Leaf Panama	Diuretic Activity	MeOH Ext	IP Rat	385.0 mg/kg	Active		T14754
Leaf Panama	Hypothermic Activity	MeOH Ext	IP Rat	385.0 mg/kg	Active		T14754
Leaf Panama	Spontaneous Activity Stimulation	MeOH Ext	IP Rat	385.0 mg/kg	Active		T14754

Biological Activities for Compounds of Scarlet Bush (*Hamelia patens*)

Compound	Activity Tested For	Test Model	Dosage	Result	Notes/Organism tested	Ref #
Pteropodine	Muscarinic (M1) Receptor Modulation	Rat Xenopus oocytes	EC50=9.52 mM	Active	Produced a 2.7-fold increase in current response evoked by acetylcholine.	BV1009
Isopteropodine	Muscarinic (M1) Receptor Modulation	Rat Xenopus oocytes	EC50=9.92 mM	Active	Produced a 3.3-fold increase in current response evoked by acetylcholine.	BV1009
Isopteropodine	Serotonin Receptor Modulation	Rat Xenopus oocytes	EC50=14.5 mM	Active	Produced a 2.5-fold increase in current response evoked by serotonin.	BV1009
Pteropodine	Serotonin Receptor Modulation	Rat Xenopus oocytes	EC50=13.5 mM	Active	Produced a 2.4-fold increase in current response evoked by serotonin.	BV1009
Rosmarinic Acid	Antidepressive Activity	Mice	10 x (-9)-10 x (-3) M	Active	Antidepressant activity is via some mechanism other than inhibition of monoamine transporters and monoamine oxidase.	BV1013
Pteropodine	Glutamate Receptor Modulation	Rat Xenopus oocytes	Not stated	Inactive		BV1009

Compound	Activity Tested For	Test Model	Dosage	Result	Notes/Organism tested	Ref #
Isopteropodine	Glutamate Receptor Modulation	Rat Xenopus oocytes	Not stated	Inactive		BV1009
Pteropodine Isopteropodine	Current Response Inhibition	Rat Xenopus oocytes	10 mM 10 mM	Active	Reduced EC(50) values of acetylcholine and serotonin that elicited current responses.	BV1009
Pteropodine + Isopteropodine	Immunostimulating Activity	In vitro	10(-2) - 10(-7)	Active		BV1015
Rosmarinic Acid	Immunosuppressive Activity	Mice	50 mg/kg	Active	vs. collagen induced arthritis.	BV1010
Rosmarinic Acid	Immunosuppressive Activity	In vivo In vitro	Not Stated	Active Active	vs. splenic T-cell proliferation. Prolonged skin graft survival in combination with rapamycin.	BV1011
Rosmarinic Acid	Immunosuppressive Activity	In vitro	Not Stated	Active	Inhibited T-cell antigen receptor-induced interleukin 2 expression and subsequent T-cell proliferation.	BV1012
Pteropodine + Isopteropodine	Amyloid Inhibition	In vitro	Not Stated	Active		BV1014

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