

Biological Activities of Bobinsana (*Calliandra angustifolia*)

Plant Part - Origin	Activity Tested For	Type Extract	Test Model	Dosage	Result	Notes/Organism tested	Ref #
Bark - Peru	Anti-inflammatory Activity	ETOH ext	Rat external	0.8 mg / ear	Inactive	vs. EPP-induced ear edema	L14626
Bark - Peru	Prostaglandin synthesis inhibition	ETOH ext	in vitro	100 mcg/ml	Active	vs. COX-1 catalysed prostaglandin biosynthesis	L14626

Biological Activities of Compounds in Bobinsana (*Calliandra angustifolia*)

Compound	Activity Tested For	Test Model	Dosage	Result	Notes/Organism tested	Ref #
Pipecolic acid	Gamma-glutamyl transpeptidase Stimulation	Hepatoma - rat	Not stated	Active	Enzyme activity was increased by 29%	M25845
Pipecolic acid	Larvicidal Activity	In vitro	2.5% 5.0%	Active Active	<i>Spodoptera frugiperda</i> 100% mortality	M05070
Pipecolic acid	Serotonin (5-HT) Antagonist Activity	Rat	0.03 millimols	Active	Competitive antagonism	K19534
Pipecolic acid	Spasmogenic Activity	Rat	0.03 millimols	Inactive	Partial agonist of 5-HT	K19534
Pipecolic acid	Vasodilator Activity	Dog	Not stated	Inactive		T10791
Pipecolic acid, 5-hydroxy: trans	Platelet Aggregation Inhibition	In vitro	Not stated	Active	Platelet aggregation induced with 5-HT	N01610
Pipecolic acid, trans: 4-acetyl-amino	Larvicidal Activity	In vitro	0.1% 0.5%	Inactive	<i>Spodoptera frugiperda</i>	M05070
Pipecolic acid, trans: 4-acetyl-amino	Larvicidal Activity	In vitro	1.0%	Active	<i>Spodoptera frugiperda</i>	M05070
Pipecolic acid, trans: 5-hydroxy	Larvicidal Activity	In vitro	0.1% 0.5% 1.0%	Active Active Active	<i>Spodoptera frugiperda</i> 35% mortality 60% mortality	M05070
Pipecolic acid, trans-cis: 4-5-dihydroxy	Larvicidal Activity	In vitro	0.1% 0.5% 1.0% 2.5%	Inactive Active Active Active	<i>Spodoptera frugiperda</i> 30% mortality 60% mortality 85% mortality	M05070

Pipecolic acid, trans-trans:: 4-5-dihydroxy	Larvicidal Activity	In vitro	1.0% 2.5%	Inactive Active	<i>Spodoptera frugiperda</i> 100% mortality	M05070
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