

## Biological Activities of Tamamuri (*Brosimum acutifolium*)

Plant Part - Origin	Activity Tested For	Type Extract	Test Model	Dosage	Result	Notes/Organism tested	Ref #
Bark - Brazil	Toxic Activity	ETOH	Rat	Various	Inactive	No toxicity noted at any dosage tested.	BA2006
Bark - Brazil	Cytotoxic Activity	Fractions: brosimacutins	Cell Culture	IC50: 4.4 mg/ml IC50: 19 mg/ml	Active	P388 murine leukemia cells vincristine-resistant leukemia cells	BA2003
Bark - Brazil	Cytotoxic Activity	H2O ext DMSO ext	Cell Culture	100 ug / plate	Active	HT29 and NCI-H460 human cancer cell lines (colon, lung)	BA2004
Bark - Brazil	Anti-inflammatory Activity	ETOH Hexane	PO Rat	Various	Active	Significantly reduced edema from several laboratory generated inflammatory processes.	BA2007
Bark - Brazil	Protein Kinase Inhibitory Activity	Fractions: Mururin B	In vitro	20 microM	Active	Inhibited Protein Kinase A by 58%	H30578
Bark - Brazil	Protein Kinase Inhibitory Activity	Fractions: Mururin A	In vitro	20 microM	Equivocal	Inhibited Protein Kinase A by 3%	H30578
Bark - Brazil	Protein Kinase Inhibitory Activity	Fractions: Mururin A	In vitro	20 microM	Active	Inhibited Protein Kinase C by 63%	H30578
Bark - Brazil	Protein Kinase Inhibitory Activity	Fractions: Mururin B	In vitro	20 microM	Active	Inhibited Protein Kinase C by 38%	H30578
Bark - Peru	Anti-yeast Activity	ETOH ext	Agar plate	Not stated	Active Active	<i>Candida albicans</i> <i>Saccharomyces cerevisiae</i>	BA2005
Bark - Peru	Anti-fungal Activity	ETOH ext	Agar plate	Not stated	Active Inactive	<i>Epidermoophyton floccosum</i> <i>Trichophyton metagrophytes</i>	BA2005

Plant Part - Origin	Activity Tested For	Type Extract	Test Model	Dosage	Result	Notes/Organism tested	Ref #
Bark - Peru	Anti-bacterial Activity	ETOH ext	Agar plate	Not stated	Active Active Active Inactive Inactive	<i>Bacillus cereus</i> <i>Staphylococcus aureus</i> <i>Helicobacter pylori</i> <i>Pseudomonas aeruginosa</i> <i>Escherichia coli</i>	BA2005

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