Data Sheet (Cat.No.TN3573)

TargetMol
A DRUG SCREENING EXPERT

Camaric acid

Chemical Properties

CAS No.:	146450-83-1
Formula:	C35H52O6
Molecular Weight:	568.8
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Camaric acid shows antibacterial activity against Staphylococcus aureus and methicillin resistant S. aureus with IC50 values 8.74 and 8.09 uM, respectively, it also shows moderate antileishmanial activity and highly potent antitrypanosomal activity. Camaric acid possesses nematicidal activity. Camaric acid shows significant topical anti-inflammatory activity with IC50 value of 0.67 mg/ear in the assay of TPA mouse ear oedema model.
Targets(IC_{50})	Antifection: None
In vitro	METHODS AND RESULTS: Two new natural triterpenes, lantaninilic acid and lantoic acid, along with the known triterpenes lantadene A, and oleanolic, ursolic, betulinic, lantanolic, and Camaric acid, were obtained from the aerial parts of Lantana camara through bioassay-guided isolation, monitoring the in vitro antileishmanial activity against promastigotes of Leishmania major. Oleanolic acid (3), ursolic acid (4), lantadene A (5), and lantanilic acid (7) showed significant leishmanicidal activities with IC50 values of 53.0, 12.4, 20.4, and 21.3 μM, respectively. The IC50 value of ursolic acid (4; 12.4 μM) was found to be comparable with that of the standard drugs, pentamidine (IC50 15.0 μM) and amphotericin B (IC50 0.31 μM). CONCLUSIONS: The in vitro activities of L. camara and its constituents against promastigotes of Leishmania major are reported here for the first time.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.758 mL	8.790 mL	17.581 mL
5 mM	0.352 mL	1.758 mL	3.516 mL
10 mM	0.176 mL	0.879 mL	1.758 mL
50 mM	0.035 mL	0.176 mL	0.352 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Leishmanicidal Triterpenes from Lantana camara. Chem Biodivers. 2014 May;11(5):709-18.
2. Antibacterial Triterpenoids Isolated from Lantana camara. Pharmaceutical Biology, 2008 , 37 (1) :63-66
3. Oleanene constituents of Lantana cujabensis. Fitoterapia. 2004 Jun;75(3-4):327-31.
4. Nematicidal natural products from the aerial parts of Lantana camara Linn. Nat Prod Res. 2005 Sep;19(6):609-13.
5. Antibacterial and cytotoxic triterpenoids from Lantana viburnoides ssp viburnoides var kisi. Spatula Dd, 2011,4(1):213-8.

Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481