Data Sheet (Cat.No.TN6559)

TargetMol

Isogambogic acid

Chemical Properties

CAS No. : 149655-52-7

Formula: C38H44O8

Molecular Weight: 628.76

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Isogambogic acid is a xanthone-type natural product isolated from plants of the Garcinia genus (Garcinia hanburyi). Isogambogic acid exhibits significant cytotoxic activity and has been shown in vitro to inhibit human epidermoid carcinoma KB cells as well as the drug-resistant KB-V1 cell line.
Targets(IC50)	Antibiotic
In vitro	METHODS AND RESULTS: Three xanthone derivatives, gambogic acid, Isogambogic acid and isomorellinol, were isolated from the dried latex of Garcinia hanburyi. Two of them, Isogambogic acid and isomorellinol, are new. Determinations of the structures and stereochemistry were achieved independently by a series of NMR experiments including COSY, ROESY, HMQC, HMBC and selective INEPT. Isolation of isomorellinol from G. hanburyi provided important chemical evidence to link this species to G. morella. The presence of gambogic acid and Isogambogic acid, however, demonstrated the difference between these two species. CONCLUSIONS: Cytotoxic evaluation of these isolates revealed that all three were active against KB and drug-resistant KB-V1 cell lines.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5904 mL	7.9522 mL	15.9043 mL
5 mM	0.3181 mL	1.5904 mL	3.1809 mL
10 mM	0.159 mL	0.7952 mL	1.5904 mL
50 mM	0.0318 mL	0.159 mL	0.3181 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Isogambogic acid and isomorellinol from Garcinia hanburyi Magnetic Resonance in Chemistry, 2011, 31 (4):340-347.

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