

Demethylmurrayanine

Chemical Properties

CAS No.:	123497-84-7
Formula:	C ₁₃ H ₉ NO ₂
Molecular Weight:	211.22
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	O-Demethylmurrayanine and clausine D exhibit strong cytotoxicity against MCF-7 and SMMC-7721 with IC ₅₀ values in the range 2.63-7.59 ug/ml.
Targets(IC ₅₀)	Others: None
In vitro	METHODS AND RESULTS:Two new compounds 6-methoxy-9H-carbazole-3-carboxylic acid (1) and 9-[3-methyl-4-(4-methyl-5-oxo-tetrapydro-furan-2-yl)-but-2-enyloxy]-furo[3,2-g]chromen-7-one (5) along with four known compounds clausine D (2), claulansines J (3), O-Demethylmurrayanine (4) and pabularinone (6) were isolated from the Clausena lansium . The chemical structures of the new compound were elucidated by 1D and 2D NMR as well as HR-ESIMS spectral analysis. All the compounds isolated were evaluated for cytotoxic effects against human breast cancer (MCF-7), non-small lung carcinoma (H1299) and liver cancer (SMMC-7721). CONCLUSIONS: Compounds 2 and 4 exhibited strong cytotoxicity against MCF-7 and SMMC-7721 with IC 50 values in the range 2.63-7.5902µg/ml, and Compounds 1 and 5 showed moderate cytotoxicity against MCF-7, H1299 and SMMC-7721 tumor cell lines.

Solubility Information

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

	1mg	5mg	10mg
1 mM	4.734 mL	23.672 mL	47.344 mL
5 mM	0.947 mL	4.734 mL	9.469 mL
10 mM	0.473 mL	2.367 mL	4.734 mL
50 mM	0.095 mL	0.473 mL	0.947 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 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Two new cytotoxic constituents from the Clausena lansium (Lour.) Skeels. Phytochem. Lett.,2014, 9(3):92-95.

Inhibitors · Natural Compounds · Compound Libraries

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