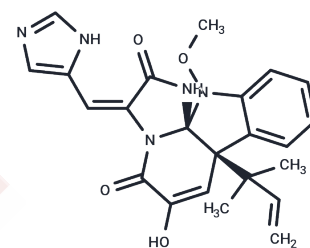


Meleagrins

Chemical Properties

CAS No. :	71751-77-4
Formula:	C ₂₃ H ₂₃ N ₅ O ₄
Molecular Weight:	433.46
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	Meleagrins, a roquefortine C-derived alkaloid produced by Penicillium fungi, serves as both a class of Fcbl inhibitors and a lead c-Met inhibitory entity for controlling c-Met-dependent metastatic and invasive breast malignancies. It exhibits antimicrobial and anti-proliferative activities.
Targets(IC50)	Others, Antibacterial, Antibiotic, c-Met/HGFR
In vitro	Meleagrins induces a dose-dependent inhibition of HGF-induced cell migration, and invasion of breast cancer cell lines. Meleagrins suppresses the growth of the human breast cancer cell lines MDA-MB-231, MDA-468, BT-474, SK BR-3, MCF7 and MCF7-dox [3].
In vivo	In an orthotopic athymic nude mice model, Meleagrins effectively inhibits the invasive triple-negative breast tumor cell growth[3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.307 mL	11.5351 mL	23.0702 mL
5 mM	0.4614 mL	2.307 mL	4.614 mL
10 mM	0.2307 mL	1.1535 mL	2.307 mL
50 mM	0.0461 mL	0.2307 mL	0.4614 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

- Newmister SA, et al. Unveiling sequential late-stage methyltransferase reactions in the meleagrins/oxaline biosynthetic pathway. *Org Biomol Chem*. 2018 Sep 11;16(35):6450-6459.
- Zheng CJ, et al. Meleagrins, a new FabI inhibitor from *Penicillium chrysogenum* with at least one additional mode of action. *PLoS One*. 2013 Nov 28;8(11):e78922.
- Mady MS, et al. The indole alkaloid meleagrins, from the olive tree endophytic fungus *Penicillium chrysogenum*, as a novel lead for the control of c-Met-dependent breast cancer proliferation, migration and invasion. *Bioorg Med Chem*. 2016 Jan 15;24(2):113-22.

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