

Clauszoline M

Chemical Properties

CAS No.:	187110-72-1
Formula:	C13H9NO3
Molecular Weight:	227.22
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Clauszoline M shows a significant anti-tuberculosis activity.
Targets(IC ₅₀)	Antifection: None
In vitro	METHODS AND RESULTS: A series of 49 oxygenated tricyclic carbazole derivatives has been tested for inhibition of the growth of Mycobacterium tuberculosis and a mammalian cell line (vero cells). From this series, twelve carbazoles showed a significant anti-TB activity. CONCLUSIONS: The four most active compounds were the naturally occurring carbazole alkaloids Clauszoline M (45), murrayaline C (41), carbalexin C (27), and the synthetic carbazole derivative 22 with MIC90 values ranging from 1.5 to 3.7µM. The active compounds were virtually nontoxic for the mammalian cell line in the concentration range up to 50µM.

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	4.401 mL	22.005 mL	44.010 mL
5 mM	0.880 mL	4.401 mL	8.802 mL
10 mM	0.440 mL	2.201 mL	4.401 mL
50 mM	0.088 mL	0.440 mL	0.880 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. Anti-tuberculosis activity and structure-activity relationships of oxygenated tricyclic carbazole alkaloids and synthetic derivatives. Bioorg Med Chem. 2016 Dec 27. pii: S0968-0896(16)31162-2.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481