Product Data Sheet

Product Name: Pimprinine
Cat. No.: GC18707

Chemical Properties

Cas. No.	13640-26-1		
Chemical Name	3-(2-methyl-5-oxazolyl)-1H-indole		
SMILES	CC(O1)=NC=C1C2=CNC3=CC=CC=C32		
Formula	$C_{12}H_{10}N_2O$	M.Wt	198.2
Solubility	DMF: soluble,DMSO: soluble,Ethanol: soluble,Methanol: soluble	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Pimprinine		

Background

Pimprinine is an alkaloid originally isolated from Streptomyces that has diverse biological activities, including anticonvulsant, antiplatelet, and antimicrobial properties. It inhibits deamination of serotonin by monoamine oxidase (MAO; IC50 = 48 µM). Pimprinine (80 mg/kg) increases the minimum and maximum electroshock seizure thresholds in mice. In a mouse model of tremorine-induced tremors, it increases the latency to tremor onset, as well as reduces the intensity and duration of tremors and the analgesic activity of tremorine when administered at a dose of 80 mg/kg. Pimprinine inhibits aggregation of rabbit platelets induced by arachidonic acid or collagen (IC50s = 3 and 25 µg/ml, respectively) and arachidonic acid-induced thromboxane A2 (TXA2) synthesis in rabbit platelets in vitro (IC50 = 6 µg/ml). It also inhibits the growth of M. tuberculosis, P. varioti, C. albicans, and S. lutea in vitro (MICs = 25, 1, 1.5, and 2.5 µg/ml, respectively).

References:

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

[1].Takeuchi, T., Ogawa, K., Iinuma, H., et al. Monoamine oxidase inhibitors isolated from fermented broths J. Antibiot. (Tokyo) 26(3), 162-167 (1973).
[2].Naik, S.R., Harindran, J., and Varde, A.B. Pimprinine, an extracellular alkaloid produced by Streptomyces CDRIL-312: Fermentation, isolation and pharmacological activity J. Biotechnol. 88(1), 1-10 (2001).
[3].Umehara, K., Yoshida, K., Okamoto, M., et al. Studies on new antiplatelet agents, WS-30581 A and B J. Antibiot. (Tokyo) 37(10), 1153-1160 (1984).
[4].Intaraudom, C., Rachtawee, P., Suvannakad, R., et al. Antimalarial and antituberculosis substances from Streptomyces sp. BCC26924 Tetrahedron 67(39), 7593-7597 (2011).

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA