

## Zeorin

## Chemical Properties

CAS No.:	22570-53-2
Formula:	C <sub>30</sub> H <sub>52</sub> O <sub>2</sub>
Molecular Weight:	444.7
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Zeorin shows strong inhibition activity against bacteria and fungi. It markedly exhibits inhibitory activity on histamine release from mast cell induced by DNP24-BSA, it shows potent inhibitory effect by 40% decrease of histamine release.
Targets(IC <sub>50</sub> )	Antifection: None ATPase: None Calcium Channel: None Histamine Receptor: None
In vitro	The insect pathogens in the genus <i>Torrubiella</i> s. lat. were recently divided into new genera based on molecular phylogenetic characters. METHODS AND RESULTS: Isolates collected at various locations in Thailand, were tested for their productivity of a hopane-type triterpene, Zeorin (6 $\alpha$ ,22-dihydroxyhopane), when cultured in potato dextrose broth under static conditions. Among the 49 strains of <i>Torrubiella</i> s. lat. species, <i>Conoideocrella luteorostrata</i> (ten strains) and <i>C. tenuis</i> (seven strains), all collected on scale insects (Hemiptera), produced Zeorin, whereas another six strains of <i>Orbiocrella patchii</i> (which was recently removed from <i>Torrubiella</i> ) failed in the detection of this secondary metabolite. All other <i>Torrubiella</i> s. lat. (26 strains), collected on other insect hosts including leafhoppers (eight strains), Lepidoptera (one strain), and spiders (17 strains), produced no detectable Zeorin. <i>Paecilomyces cinnamomeus</i> (nine strains), the anamorph of <i>C. luteorostrata</i> , also produced Zeorin. CONCLUSIONS: These results correspond with the recent taxonomic reclassification based on multigene phylogeny.

## 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	2.249 mL	11.244 mL	22.487 mL
5 mM	0.450 mL	2.249 mL	4.497 mL
10 mM	0.225 mL	1.124 mL	2.249 mL
50 mM	0.045 mL	0.225 mL	0.450 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. Chemical taxonomy of *Torrubiella* s. lat.: zeorin as a marker of *Conoideocrella*. *Fungal Biol.* 2011 Apr-May;115(4-5):401-5.
2. Antimicrobial activity of the lichen *Lecanora frustulosa* and *Parmeliopsis hyperopta* and their divaricatic acid and zeorin constituents. *African journal of microbiology research*.2010 Apr; 4:885-890.

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