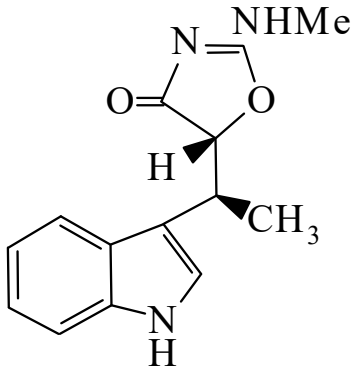
>>**Entry Name: Indolmycin**
Synonym(s): 5-[1-(1*H*-Indol-3-yl)ethyl]-2-(methylamino)-4(5*H*)-oxazolone, 9Cl. PA 155A. Antibiotic PA 155A



(±)-*form*

CAS Registry Number: 21200-24-8

Molecular Formula: $C_{14}H_{15}N_3O_2$
Molecular Weight: 257.291
Accurate Mass: 257.116427
Percentage Composition: C 65.36%; H 5.88%; N 16.33%; O 12.44%
UV: [neutral] λ_{max} 219 (ε 55600); 273 (ε 5500); 280 (ε 5760); 288 (ε 4930) (MeOH) (Derep)
Hazard & Toxicity: LD_{50} (mus, scu) 800 mg/kg

>>**Variant:** (–)-form

Molecular Formula: $C_{14}H_{15}N_3O_2$
Molecular Weight: 257.291
Accurate Mass: 257.116427
Percentage Composition: C 65.36%; H 5.88%; N 16.33%; O 12.44%
Biological Source: Isol. from *Streptomyces albus* and *Streptomyces griseus*
Use/Importance: Shows activity against gram-positive bacteria including mycobacteria. Antagonist of L-Tryptophan
Physical Description: Prisms (MeOH or EtOAc)
Melting Point: Mp 209-210°
Optical Rotation: $[\alpha]_D^{25}$ –214 (c, 2 in MeOH)
Solubility: BERDY SOL: Sol. MeOH, Me_2CO, butanol, EtOH; fairly sol. H_2O, C_6H_6, Et_2O; poorly sol. hexane
UV: [neutral] λ_{max} 218 (E1%/1cm 1960); 273 (E1%/1cm 200); 281 (E1%/1cm 233); 288 (E1%/1cm 186) (MeOH) (Berdy) [neutral] λ_{max} 219 (ε 55640); 273 (ε 5500); 280 (ε 5760); 288 (ε 4930) (EtOH) (Berdy)
Other Data: λ_{max} 218, 273, 281 and 288 nm

>>**Derivative:** Dipicrate

Physical Description: Orange-red plates ($EtOH/Et_2O$)
Melting Point: Mp 148-149°

>>**Variant:** (±)-form

Molecular Formula: $C_{14}H_{15}N_3O_2$
Molecular Weight: 257.291
Accurate Mass: 257.116427
Percentage Composition: C 65.36%; H 5.88%; N 16.33%; O 12.44%
Physical Description: Cryst. (Me_2CO)
Melting Point: Mp 183.5-184°
Solubility: BERDY SOL: Sol. MeOH, C_6H_6; poorly sol. H_2O, hexane
UV: [neutral] λ_{max} 234 (E1%/1cm 419); 254 (E1%/1cm 342); 292 (E1%/1cm 95); 465 (E1%/1cm 125); 493 (E1%/1cm 162); 514 (E1%/1cm 200); 526 (E1%/1cm 117); 575 (E1%/1cm 15) (MeOH) (Berdy) [base] λ_{max} 241 (E1%/1cm 482); 560 (E1%/1cm 181); 596 (E1%/1cm 154) (MeOH-NAOH) (Berdy) [acid] λ_{max} 234 (E1%/1cm 434); 254 (E1%/1cm 352); 292 (E1%/1cm 100); 465 (E1%/1cm 135); 493 (E1%/1cm 172); 514 (E1%/1cm 122); 526 (E1%/1cm 115) (MeOH-HCl) (Berdy)

References:

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