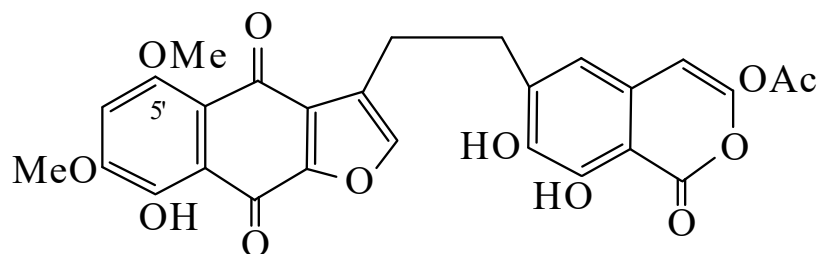




>>Entry Name: α -Rubromycin

Synonym(s): Collinomycin



CAS Registry Number: 27267-69-2

Molecular Formula: $C_{27}H_{20}O_{12}$

Molecular Weight: 536.448

Accurate Mass: 536.09548

Percentage Composition: C 60.45%; H 3.76%; O 35.79%

Source/Synthesis: Isol. from *Streptomyces collinus* and *Streptomyces antibioticus*; also by Py-catalysed rearr. of β -Rubromycin [CJX46-H](#)

Use/Importance: Antibiotic

Physical Description: Red plates

Melting Point: Mp 278-281° (270-273°)

Solubility: BERDY SOL: Sol. $CHCl_3$, THF, bases, Me_2CO , dioxan; fairly sol. MeOH, Et_2O , butanol; poorly sol. hexane, H_2O

UV: [neutral] λ_{max} 319 (ϵ 20900); 352 (ϵ 11400); 365 (ϵ 11300); 415 (ϵ 5650); 484 (ϵ 7900) ($CHCl_3$) (Berdy) [base] λ_{max} 535 (); 575 () (NaOH) (Berdy)

>>Derivative: Tri-Ac

Physical Description: Yellow cryst. ($CHCl_3/EtOH$)

Melting Point: Mp 260-264°

>>Derivative: Mono-Me ether

Physical Description: Yellow powder

Melting Point: Mp 304-305°

>>Derivative: Di-Me ether

Physical Description: Yellow prisms

Melting Point: Mp 285-286°

>>Derivative: Tri-Me ether

Melting Point: Mp 272-273°

>>Derivative: 5'-De-O-Me

Synonym(s): γ -Isorubromycin

CAS Registry Number: 27409-96-7

Molecular Formula: $C_{26}H_{18}O_{12}$

Molecular Weight: 522.421

Accurate Mass: 522.07983

Percentage Composition: C 59.78%; H 3.47%; O 36.75%

Source/Synthesis: Isol. from *Streptomyces collinus*, also obt. by Py-catalysed rearr. of γ -Rubromycin [HHV39-M](#)

Use/Importance: Shows antibiotic props.

Physical Description: Red needles ($AcOH$ or $CHCl_3$)

Melting Point: Mp 295 dec.°

References:

Brockmann, H. *et al.*, *Chem. Ber.*, 1969, **102**, 126; 1970, **103**, 1709, (*isol, struct*)

Naegeli, H. *et al.*, *Helv. Chim. Acta*, 1980, **63**, 1400, (*isol*)