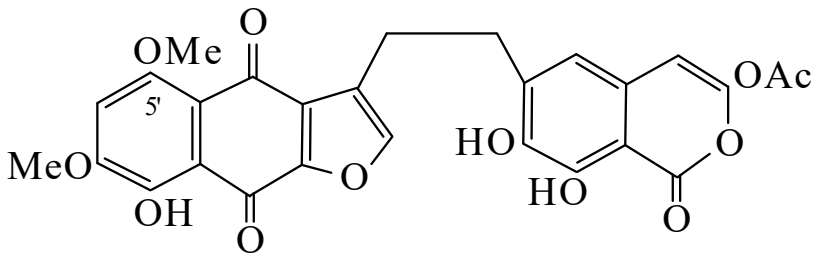
>>**Entry Name:** α-**Rubromycin**
Synonym(s): Collinomycin



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)*