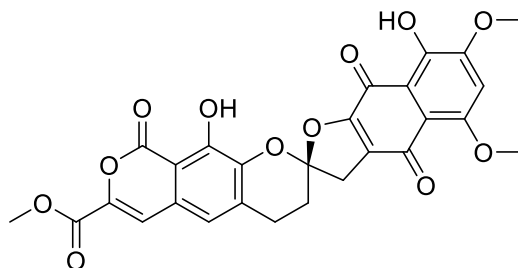


β -Rubromycin

Code No.: **BIA-R1910**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : β -Rubromycin

Specifications

CAS #	: 27267-70-5
Molecular Formula	: C₂₇H₂₀O₁₂
Molecular Weight	: 536.4
Source	: <i>Streptomyces</i> sp.
Appearance	: Dark red solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in DMSO or chloroform

Application Notes

β -Rubromycin was first isolated from a *Streptomyces* sp. by Brockmann and colleagues in 1969, with its structure revised in 2000. β -Rubromycin has marked activity against *B. subtilis*, *S. aureus* and *E. coli*, as well as other Gram positive organisms. β -Rubromycin demonstrates 50% inhibition of growth (GI₅₀) of stomach adenocarcinoma HM02, colon carcinoma Kato III and breast adenocarcinoma MCF7 cell lines at concentrations of 0.5, 0.84 and <1.0 μ M, respectively. β -Rubromycin has weak activity against HIV reverse transcriptase. The rubromycins were reviewed by Brasholz et al. in 2007.

References

1. Rubromycine, II. Brockmann H. et al. Chem Ber. 1969, 102, 126.
2. Structural and biosynthetic investigations of the rubromycins. Puder C. et al. Eur J Org Chem. 2000, 729, 2729.
3. Rubromycins: Structurally intriguing, biologically valuable, synthetically challenging antitumour antibiotics. Brasholz M. et al. Eur J Org Chem. 2007, 3801–3814.