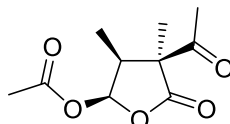


## Acetomycin

Code No.: **BIA-A1909**

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



Synonyms : (-)-Acetomycin, NSC 350598

## Specifications

CAS #	: <b>510-18-9</b>
Molecular Formula	: <b>C<sub>10</sub>H<sub>14</sub>O<sub>5</sub></b>
Molecular Weight	: <b>214.2</b>
Source	: <b><i>Streptomyces ramulosus</i></b>
Appearance	: <b>White to off-white crystalline solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in DMSO or methanol</b>

## Application Notes

Acetomycin, a  $\gamma$ -butyrolactone isolated from *Streptomyces ramulosus*, was first reported in 1958 by Ettliger et al. at ETH Zurich. Acetomycin is potently active in vitro against HCT-8 human colon adenocarcinoma cells and L1210 murine leukemia cells. Acetomycin is inactive in vivo giving rise to the design and synthesis of esterase-resistant analogues.

## References

1. Stoffwechselprodukte von Actinomyceten. 12. Mitteilung. Über die Isolierung und Charakterisierung von Acetomycin. Ettliger L. et al. Helv. Chim. Acta 1958, 41, 216.
2. Biological effects of acetomycin. I. Activity against tumor cells in vitro and in vivo. Mamber S.W. et al. J. Antibiot. 1987, 40, 73.
3. Biological effects of acetomycin. II. Inactivation by esterases in vitro. Mamber S.W. et al. J. Antibiot. 1987, 40, 77.
4. Novel studies on structure activity relationships for anti-tumor antibiotic acetomycin, and design for the esterase resistant analogs. Junichi L. Chem. Pharm. Bull. 1999, 47, 517.