

Effect of adenosine derivatives to produce actinorhodin

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Abstract

Streptomyces coelicolor A3(2) produces many useful natural antibiotics such as actinorhodin. *S.coelicolor* can overproduce actinorhodin when the addition of S-adenosylmethionine (SAM) to the culture medium. SAM consists of adenosine moiety. We synthesized adenosine derivatives and found effects of adenosine derivatives to produce actinorhodin.

Reference

1. Okamoto S, Lezhava A, Hosaka T, Okamoto-Hosoya Y, Ochi K, Enhanced expression of S-adenosylmethionine synthetase causes overproduction of actinorhodin in *Streptomyces coelicolor* A3(2) (2003), *J. Bacteriol.* 185(2), 601-9.