

In vitro binding assay of AfsK with SAM

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Abstract

Streptomyces coelicolor A3(2) produces an antibiotic, actinorhodin. Production of actinorhodin is induced by S-adenosyl-L-methionine (SAM). In its biosynthetic pathway, AfsK is related to production of actinorhodin.1)A yield of actinorhodin is dose-dependent of SAM. However, it is not determined that AfsK is bound to SAM directly. To prove direct binding of AfsK with SAM, authors performed NMR experiments.

Reference

1. D. Kim, J. Hur, Y. Yang, C. Kang, I. Lee, C. Hyun, S. Hong, J. Suh, Accumulation of S-adenosyl-L-Methionine enhances production of actinorhodin but inhibits sporulation *Streptomyces lividans* TK23 (2003), *J. Bacteriol.* 185, 592-600.