

P09 Antibacterial Compound against *Pasteurella haemolytica* is produced from *Streptomyces* sp. 51086

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The *Pasteurella haemolytica*-induced pneumonic lesions are frequently occurred with stress and infection of virus in the cattle. In the course of screening for antimicrobial activity against *Pasteurella haemolytica*, compound 51086 has been isolated from the fermentation broth of the strain *streptomyces* sp. The compound 51086 was purified by column chromatography and HPLC, subsequently. The structure of compound 51086 was determined as a hygromycin A by a combination of ¹H NMR, ¹³C NMR, HMBC, and ESI-MS. This compound showed significant antibacterial activity against *P. haemolytica* and *P. multocida* in Gram-negative bacteria.