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#### 论文

7-酰氨基-3-(1,2,3-三唑甲基)头孢菌素衍生物的合成及其抗菌活性

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摘要:

本文以青霉素G扩环而得的7-苯乙酰氨基-3-甲基-3-头孢烯-4-羧酸(I)为原料,合成了12个C。位上有1,2,3-三唑甲 基取代的新头孢菌素衍生物(Ⅷ1~12),并经分析确证了各化合物的结构。体外抑菌试验结果表明,其中6个化合物,即 Ⅲ2~4.9~11,不仅对革兰氏阳性菌有较高的抑制作用。而且对革兰氏阴性菌也有高度敏感性。

关键词: 口服头孢菌素 7-酰氨基-3-(1,2,3-三唑甲基)头孢菌素 抗菌活性 构效关系

SYNTHESIS AND ANTIMICROBIAL ACTIVITY OF 7-ACYLAMIDO-3-(1,2,3-TRIAZOL-1-YLMETHYL) CEPHALOSPORINS

CY Zhang; SC Hu; HS Zhou and TH Duan

## Abstract:

In order to develope oral cephalosporin exhibiting broad-spectrum activity, a series of cephalosporin derivatives ( $\sqrt{12}$ ) bearing 1,2,3-triazolylmethyl substituents on the C<sub>3</sub> position were synthesized. 7-Phenylacetamido-3-methyl-3-cephem-4-carboxylic acid ( I ) was employed as starting material and converted to VIII by procedures of esterification and oxidation, bromination, azido-substitution, dipolar cycloaddition, deprotection, cleavage, and condensation. Minimum inhibitory concentra tion (MIC) values 》 周慧殊 in vitro showed that  $\mathbb{W}_{2\sim 4.9\sim 1.1}$  had a wide antibacterial spectrum against Gram positive and Gram negative bacteria and possessed high activities. Further biological evalution and the study of oral absorption for the six compounds will be performed.

Keywords: 7-Acylamido-3-(1, 2, 3-triazol-ylmethyl) cephalosporins Antibacterial activity Structureactivity relationship Oral cephalosporin

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