

# 2-Alkyl-3,4-dihydroxy-5-hydroxymethylpyridine Derivatives: New Natural Vitamin B<sub>6</sub> Analogues from a Terrestrial *Streptomyces* sp.

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The ethyl acetate extract of the strain *Streptomyces* sp. GW23/1540 has yielded four new 2-alkyl-5-(hydroxymethyl)pyridine-3,4-diols, 5-hydroxymethyl-2-isopropyl-pyridine-3,4-diol (**1a**), 5-hydroxymethyl-2-propyl-pyridine-3,4-diol (**1b**), 2-*sec*-butyl-5-hydroxymethyl-pyridine-3,4-diol (**1c**), and 5-hydroxymethyl-2-isobutyl-pyridine-3,4-diol (**1d**). Similarly, the strain *Streptomyces* sp. GW63/1571 afforded 2-*sec*-butyl-5-hydroxymethyl-pyridine-3,4-diol (**1c**) and another new natural product, (3*aS*, 7*aR*)-3*a*-hydroxy-3*a*,4,7,7*a*-tetrahydro-1-benzofuran-2(3*H*)-one (**3**), together with anthranilic acid, anthranilamide, and phenylacetamide. The new natural products were inactive against three micro algae, the fungus *Mucor miehei*, the yeast *Candida albicans*, and the bacteria *Staphylococcus aureus*, *Bacillus subtilis*, *Escherichia coli*, and *Streptomyces viridochromogenes*.

*Key words:* *Streptomyces* sp., Pyridine Derivatives