3-Glutarimidyl Group

The identification of a bioactive molecule with the target of large ribosomal subunit inhibition by the minimum structure in 3-glutarimidyl group. Molecules 2, 3, 4 and 5 don't contain 3-glutarimidyl (the core) and molecule 1 contains components other than hydrogen at X_1 , X_3 and X_5 . Furthermore, molecule 1 contains components without -OH or -CO at X_4 . Therefore, the target of molecules 1, 2, 3, 4 and 5 is not large ribosomal subunit inhibition.

2,4(or 5)-Diaminocyclohexanol Group


The identification of a bioactive molecule with the target of small ribosomal subunit inhibition by the minimum structure in 2,4(or 5)-diaminocyclohexanol group. Molecules 1, 3, 4, 5 and 6 don't contain 2,4(or 5)-diaminocyclohexanol (the core). Therefore, the target of molecules 1, 3, 4, 5 and 6 is not small ribosomal subunit inhibition.

Imidazol-1-yl Group

The identification of a bioactive molecule with the target of sterol 14 α -demethylase inhibition by the minimum structure in imidazol-1-yl group. Molecules 1 and 2 contain a fused aromatic ring but these molecules don't have an aromatic ring with a halogen in position 2 or 4, molecule 3 has a carbanilate, molecule 4 doesn't contain a hydrophobic group (directly or indirectly) at X_1 and molecule 6 contains an imidazol-1-yl at one end of the molecule and a carboxylate (-COO) at the other end. Therefore, the target of molecules 1, 2, 3, 4 and 6 is not sterol 14 α -demethylase inhibition.

(1R)-Propanol Group

The identification of a bioactive molecule with the target of large ribosomal subunit inhibition by the minimum structure in (1R)-propanol group. Molecules 1, 2, 3 and 6 don't contain (1R)-propanol (the core) and molecule 5 doesn't contain -NCO or -NSO₂ at X_2 . Therefore, the target of molecules 1, 2, 3, 5 and 6 is not large ribosomal subunit inhibition.



4-Pyridone Group

The identification of a bioactive molecule with the target of DNA gyrase and topoisomerase IV inhibition by the minimum structure in 4-pyridone group. Molecule 1 contains five aromatic rings fused to the core (4-pyridone), molecule 2 contains one methyl at X_8 , molecule 4 doesn't contain -COO or isothiazol-3(2H)-one fused to the core at X_3 , molecule 5 contains hydrogen at X_1 and molecule 6 contains one methyl attached to the aromatic ring (phenyl) at X_8 (here X_8 means six-membered aromatic ring fused to the core at X_5) in position 6. Therefore, the target of molecules 1, 2, 4, 5 and 6 is not DNA gyrase and topoisomerase IV inhibition.

1,2,4-Triazol-1-yl Group

The identification of a bioactive molecule with the target of sterol 14 α -demethylase inhibition by the minimum structure in 1,2,4-triazol-1-yl group. Molecule 1 contains components other than hydrogen at X_3 , molecule 3 has a methylbenzonitrile at X_1 , molecule 4 contains a fused aromatic ring but this molecule doesn't have an aromatic ring with a halogen in position 2 or 4, molecule 5 contains one atom stereocenter and single (S)-enantiomer and molecules 1 and 6 don't contain a hydrophobic group (directly or indirectly) at X_1 . Therefore, the target of molecules 1, 3, 4, 5 and 6 is not sterol 14α -demethylase inhibition.

Cytosine Gro

The identification of a bioactive molecule with the target of large ribosomal subunit inhibition by the minimum structure in cytosine group. Molecules 3 and 5 don't contain cytosine (the core) and molecules 1, 4 and 6 don't contain at least one of the following components including 5-amino-5,6-dihydro-2*H*-pyran-2-yl, 5-aminotetrahydro-2*H*-pyran-2-yl or 4-formamidobenzoyl. Therefore, the target of molecules 1, 3, 4, 5 and 6 is not large ribosomal subunit inhibition.

(4aRS,5aRS)-Sancycline Group

The identification of a bioactive molecule with the target of small ribosomal subunit inhibition by the minimum structure in (4aRS,5aRS)-Sancycline group. Molecules 2, 3, 4, 5 and 6 don't contain (4aRS,5aRS)-Sancycline (the core). Therefore, the target of molecules 2, 3, 4, 5 and 6 is not small ribosomal subunit inhibition.