Potential of bile acids and their derivatives as drug delivery systems

Jovana Trifunović, Saša Vukmirović, Momir Mikov
Department of Pharmacology, Toxicology and Clinical Pharmacology, Medical Faculty, University of Novi Sad, Serbia

Introduction:

In this work were compared several calculation methods to evaluate the lipophilicity of thirteen different bile acids in two solvent sistems conditions.

Materials and Methods:

Retention parameters are acquired by normal-phase TLC. The correlations between calculated logP values were obtained using five different softwares with $r^2>0,89$

Results:

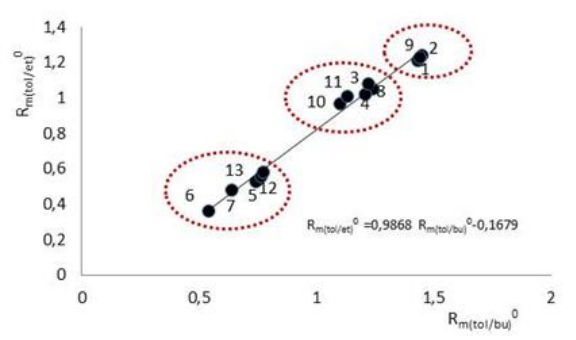

Figure 1.

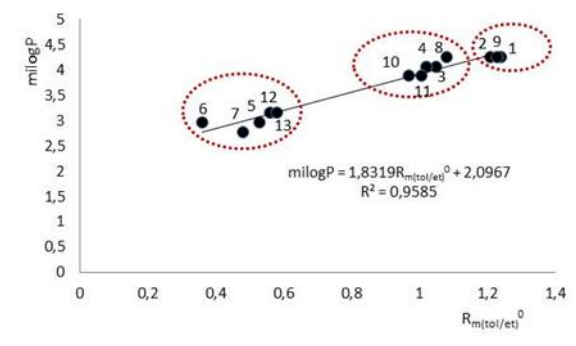

Figure 2.

Figure 1. and 2. Linear correlation equations and charts of different Rmo and milogP values

Conclusions:

Investigated bile acids showed good pharmacokinetic properties and affinity for **GPCR, NRL** and **ICM**. Oxo bile acid derivatives are marked for further research. This derivatives have shown **less hemolitic potential** and better ligand properties