

Study of Steric Hindrance of Ketone Ester Reduction Chemistry

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Abstracts:

Drug Discovery Research (DDR) is a process by which new potential therapeutic entities are recognized. Lead discovery and Computer aided drug discovery are two most popular methods in DDR. However, chemical modification such as development of the chemical linker gains its popularity in various therapeutic classes. In this poster, we are proposing four chemical steps starting from commercially available amino acids and their chemical routes for synthesizing linkers. We hypothesize that the more sterically hindered R group on Amino Acid will result in an increase in diastereomer ratio (DR) in reduction chemistry. In this poster we will discuss the detailed chemical reaction methods, their data, and how it's being proposed as a potential anti-cancer agent.