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Sect. B: Organic Chemistry including Medicinal Chemistry

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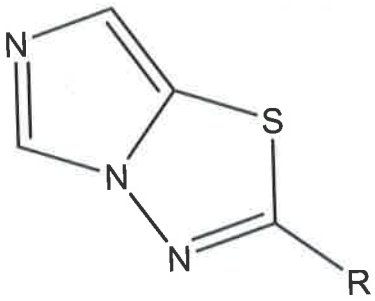
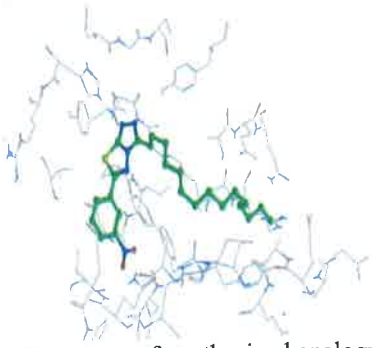


R-Stearic/palmitic acid



Docking pose of synthesized analogue

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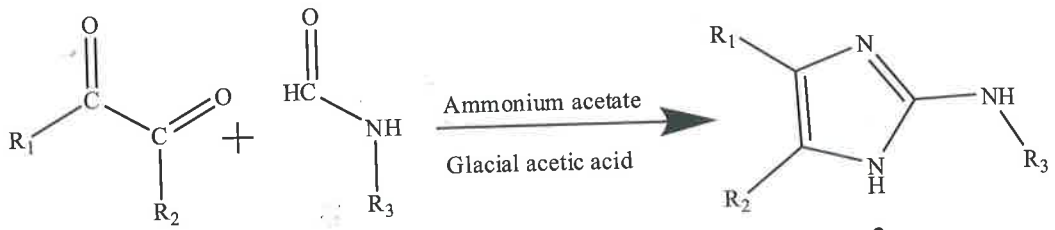

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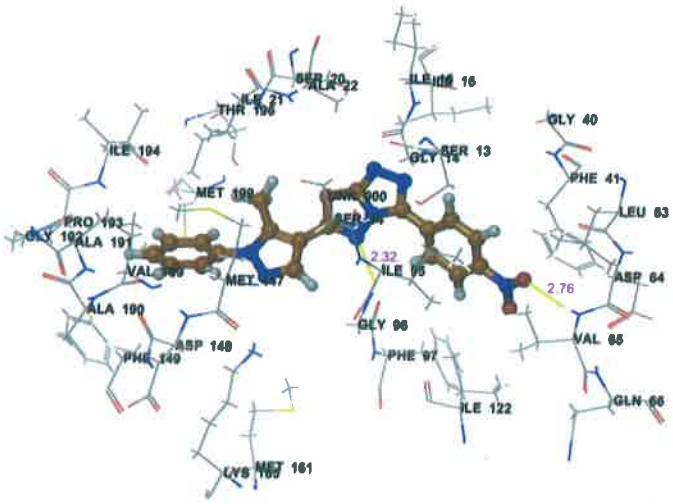

Gaddam Rajesh Kumar, Kurre Shankar & Cherkupally Sanjeeva Reddy*

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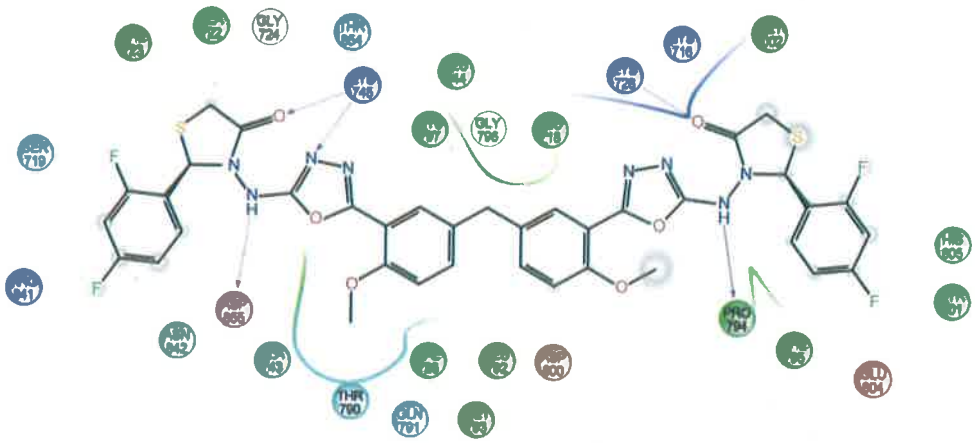

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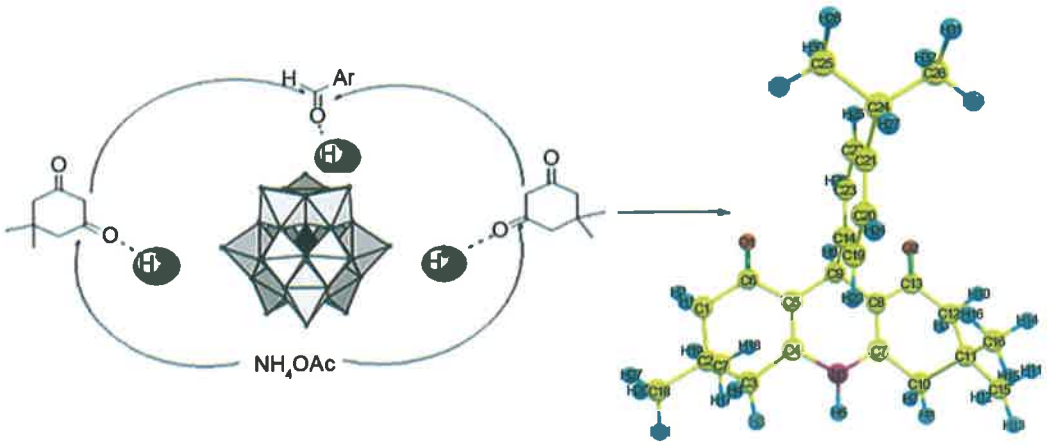

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D-Tryptophan methyl ester has effectively been used for the resolution of racemic gossypol *via* a two-step procedure. In the first step, the reaction of racemic gossypol **1** with D-tryptophan methyl ester gives the individual diastereoisomeric gossypol adducts **3** and **4** quantitatively, which can be easily separated from each other by using only filtration or evaporation of the mother liquor. In the second step, the acid hydrolysis of the separated adducts affords the desired *S*-(+)-enantiomer **5** and *R*-(−)-enantiomer **6**, respectively, in high yields and in high enantiomeric excess.

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