

HYBRID PHARMACOPHORE APPROACH OF ISATINS

Abstract:

The development of suitable lead molecules to different diseases is a highly challenging task for medicinal chemists. Nowadays, hybrid pharmacophore concept has developed as a useful structural modification tool in the drug design of new drug candidates for different diseases. Hybrid pharmacophore approach consists of combination of two or more pharmacophoric moieties from different biologically active compounds with complementary functions or different mechanisms of action into a single molecule. This often results in synergistic activity or enhanced drug efficacy.

Isatin is a versatile substrate which acts as a precursor for large number of pharmacologically active compounds having a significant importance in the synthesis of different heterocyclic compound. The broad and potent activities of the isatin and their derivatives have been established them as pharmacologically significant scaffolds.

This talk highlights on the importance of isatin hybrids in designing of new drug candidates

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