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PHENANTHRENE: A VERSATILE MOLECULE; A REVIEW

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Abstract

Phenanthrene is a nucleus of the poly aromatic hydrocarbon family consisting of three fused benzene rings. They are of great importance in the field of medicine. They are mainly synthesized through Bardhan-Sengupta synthesis, Haworth synthesis and Pschorr synthesis of phenanthrene. Presently, many naturally existing drugs such as morphine, codeine halofantrine, among others bear the phenanthrene nucleus. Synthetic derivatives including dextromethorphan and other drugs also possess this nucleus. Phenanthrene derivatives have many distinct therapeutic benefits including analgesic, antitussive, antimalarial, cytotoxic, and anticonstipation. This study was performed to highlight the various pharmacological uses of phenanthrene derivatives by reviewing experiments performed on its derivatives.

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Phenanthrene, cytotoxic, Bardhan-Sengupta synthesis, Haworth synthesis, pharmacological activities

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