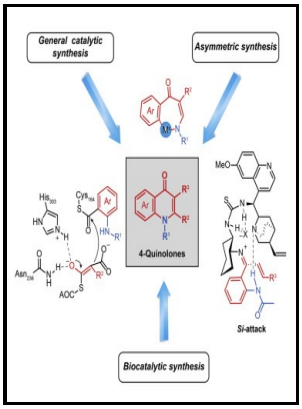
Synthetic studies towards a novel DNA targeted cross-linking agent based on DC-81 and CC-1065

University of Portsmouth, School of Pharmacy and Biomedical Sciences - Controlled drug delivery vehicles for cancer treatment and their performance



Description: -
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Small hybrid heteroaromatics: resourceful biological tools in cancer research

Pyrene linked PBD 101 was found to be the most potent displaying LC 50 value ranging from 0.

Targeting G

TEPA, which possesses cytotoxic activity, is the major metabolite in the blood and urine.

Rational design of a highly efficient irreversible DNA interstrand cross

Hoffman AS: Bioconjugates of Intelligent Polymers and Recognition Proteins for Use in Diagnostics and Affinity Separations.

Frontiers

The negatively charged dipalmitoyl-phosphatidyl-glycerol DPPG on the particle surface conveys fusogenic properties for cell entry. Cross-linking prevents DNA from being separated for reduplication or transcription.

DNA Damaging Drugs

A number of preclinical studies in small and large animal models have generated a substantial profile on the application of EP with DNA vaccination. To do this, we synthesized a 1349 bp DNA fragment encoding HPXV nucleotides 91573—92921 ThermoFisher Scientific and encompassing the HPXV095 gene plus ~400 bp of homology flanking either side of the thymidine kinase locus.

Drug

After maximum benefit is obtained by initial therapy, it is necessary to continue the patient on maintenance therapy in 1—4 week intervals. In their monomeric form, PBDs derive their biological activity by selectively binding the minor groove of DNA through the formation of covalent bonds with the exocyclic amino group of the guanine base. However, tumours harbouring wild-type BRCA2 or BRCA2-deficient tumours with BRCA2 overexpression did not respond to the treatment.

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