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Steroidal Anti-Hormone Hybrids as Novel Therapeutic Agents

U.S. Patent Application #61/146,934

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Invention Details:

The invention is a method of treating disease using novel bi-functional derivatives, in which one of the functional groups is an 11-beta-substituted steroid. These hybrid derivatives can be characterized and evaluated for biological activity prior to ligation. This methodology allows for substantial diversity. Previous approaches that have coupled two components have resulted in products that were less effective at each of their targets than the separate, individual components. This invention improves upon these prior approaches by producing a steroidal hybrid that retains the efficacy of the original individual components.

Benefits of the Invention:

Advantages:

- Novel chemical identity of drug components
- Hybrid compound retains anti-estrogenic and anti-proliferative activities
- Hybrid compound is chemically and biologically stable
- Enhanced hydrophilicity
- Hybrid compound retains individual biological responses

Applications:

- Cancer chemotherapy (i.e. breast cancer)
- Anti-infective
- Drug discovery
- Diagnostic therapeutic drugs

The Bottom Line:

This invention provides an example of a hybrid compound that can be used to modulate disease processes. The invention describes the development of new chemotherapeutic agents by coupling two biologically active compounds in order to make a single hybrid agent. The methodology for creation of these agents allows for significant diversity, and allows for a diverse pool of biologically active compounds.

For More Information:

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