

Multi-Target directed Ligands in Drug Development

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Commentary

Multi-targeted drugs (MTDLs) are designed to interact with multiple targets, often to improve efficacy or reduce side effects. The development of MTDLs is a complex process that involves identifying multiple targets, understanding their interactions, and designing a single molecule that can bind to all of them. This approach is particularly useful for chronic diseases where multiple pathways are involved in the disease process. However, the development of MTDLs is also challenging because of the need to balance the effects of multiple targets and avoid off-target effects. The success of MTDLs in drug development depends on a deep understanding of the disease and the targets involved, as well as the ability to design molecules that can interact with multiple targets simultaneously.

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