

## Citius Minds assists a pharmaceutical company in ensuring the novelty of a small-molecule drug and securing a robust patent position

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### Challenge:

A pharmaceutical company was developing a novel small-molecule drug to treat chronic pain. Before proceeding with clinical trials and patent filings, they needed to ensure that the chemical structure was novel and did not infringe upon existing patents.

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### Execution:

Our team studied the molecular structure and functional groups of the disclosed compound to identify its unique characteristics. Using advanced chemical databases such as SciFinder, Reaxys, and SureChem, we conducted substructure and exact structure searches.

We identified similar compounds patented for treating unrelated conditions such as hypertension and anxiety. These compounds shared certain functional groups but differed significantly in their therapeutic applications. We provided:

- Detailed similarity matrices comparing structural features.
  - An infringement risk assessment based on overlapping claims.
  - Suggestions for modifications to strengthen the novelty of the compound.
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### Impact:

Our client was able to refine their compound's structure to ensure novelty and secure a stronger patent position. Additionally, they identified potential licensing opportunities for alternate uses of their molecule based on our findings.

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*“The insights provided by Citius Minds were exceptional. Their comprehensive search uncovered overlaps we hadn’t considered, and their strategic recommendations ensured our compound’s novelty while opening doors for licensing opportunities. They’ve been invaluable in securing our competitive edge in drug development.”*

*Head of Research & Development – A Pharmaceutical Company*

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