

Deucravacitinib (BMS-986165)



Background

- To mitigate the symptoms of several autoimmune diseases (psoriasis, lupus, etc...)
- High-affinity inhibitor of TYK2 that selectively binds to its pseudokinase (JH2) domain
- D₃-methyl group improved metabolic stability to prevent metabolic demethylation (free amide has also potent bioactivity but lacks selecticity, which induce side effects)
- Approved by FDA in 2022 and considered to be first-in-class medicine.

Structural feature

2 heterocycles (1,2,4-triazole, pyridazine) and 2 amides (D₃-methyl, cyclopropyl)







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(**C**)

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