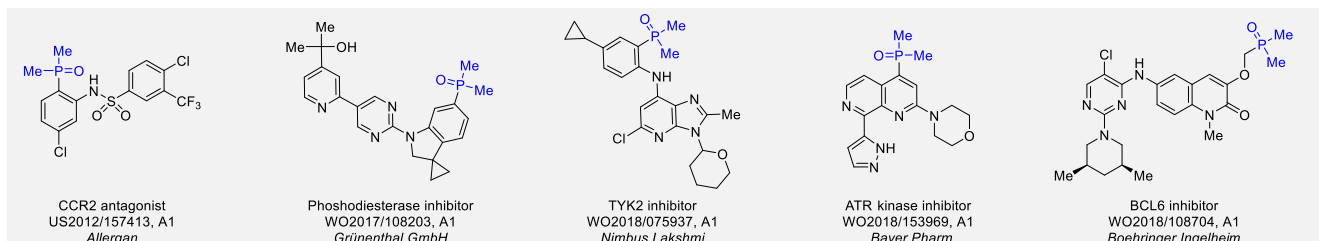


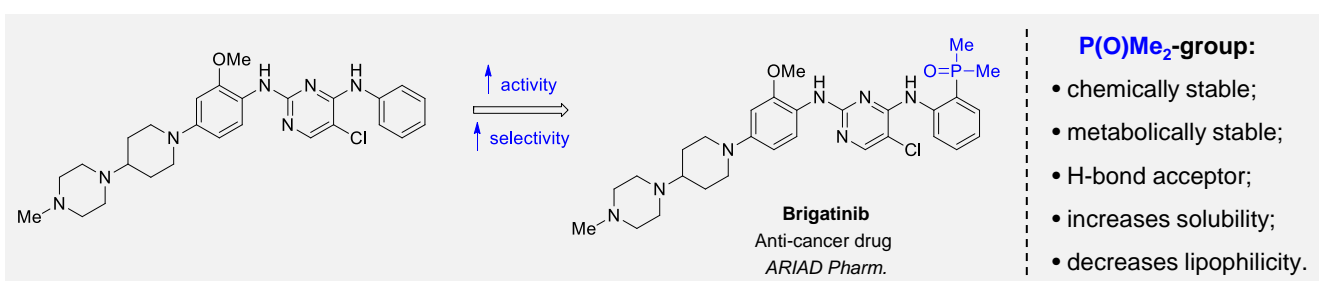
P(O)Me₂-containing Building Blocks for Drug Design

Introduction

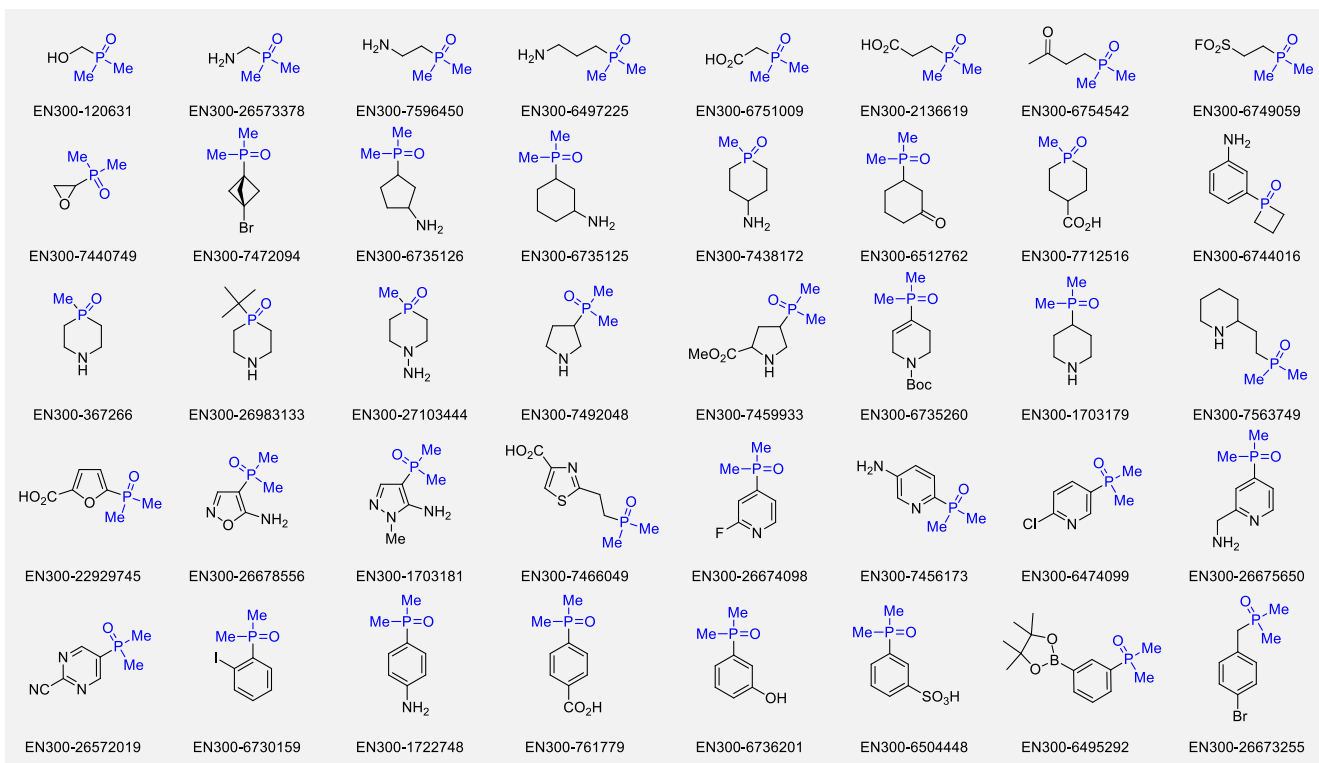
Phosphine oxides belong to a chemical class seldom employed in drug design. However, the FDA-approval of *Brigatinib* drug (ARIAD Pharm.) in 2017 may further inspire application of this unique functional group in medicinal chemistry. The highly polarized P=O bond imparts a number of important drug-like properties, including reduced lipophilicity, increased aqueous solubility, H-bond acceptor ability, and high metabolic stability.¹⁻⁴ Herein we have synthesized a library of aliphatic and heteroaromatic phosphine oxide derivatives for drug design.



Discovery of *Brigatinib*



We offer >100 unique P(O)Me₂-containing derivatives on a 5-50 g scale from our stock.



References

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4. V. Iaroshenko. *Organophosphorus Chemistry: From Molecules to Applications*, John Wiley & Sons, **2019**, 568.



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