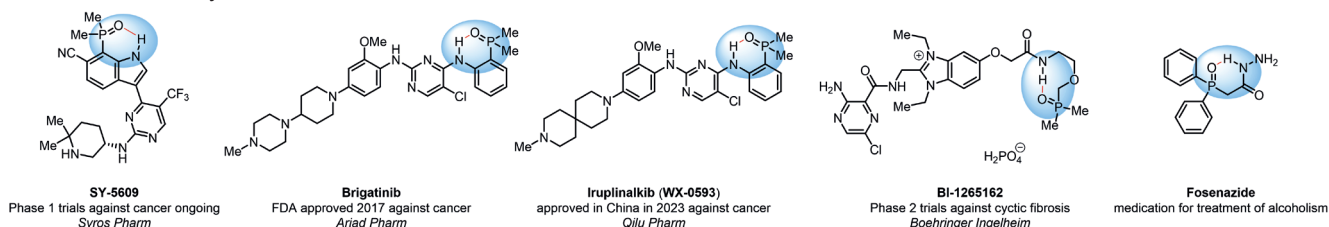


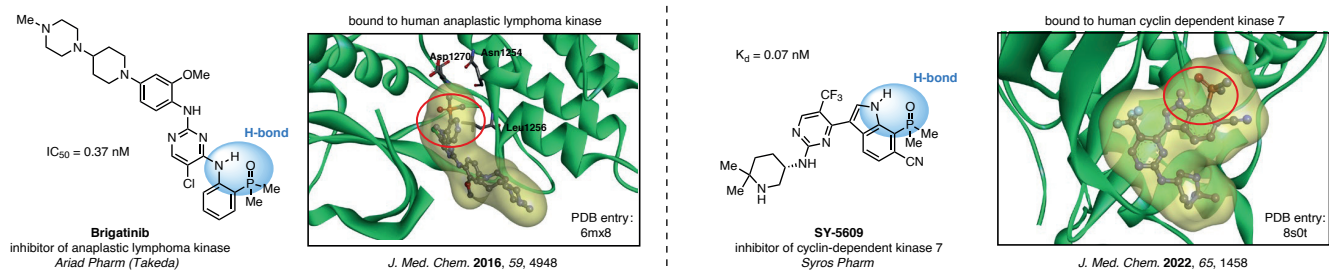
Phosphine Oxides for Intramolecular Hydrogen Bonding

Introduction

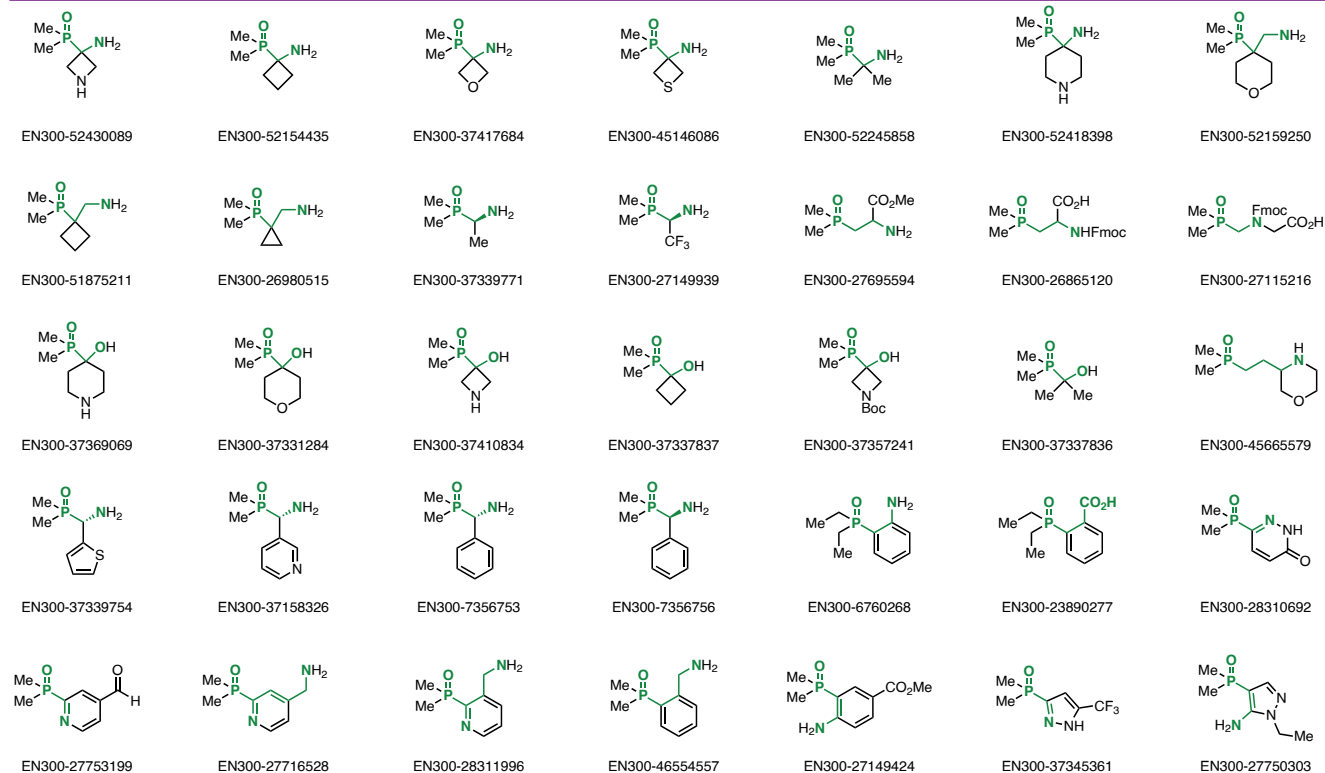
Intermolecular hydrogen bonds help stabilize molecular conformations, mask polar groups, enhance permeability of drug molecules, and optimize the lipophilicity. Phosphine oxides are stable molecular moieties that form exceptionally strong hydrogen bonds, when paired with neighboring amines, amides, hydroxyls, and other hydrogen bond donor groups and chelators.¹ Since the FDA's approval of brigatinib² – an anticancer drug – in 2017, dialkyl phosphine oxides have been increasingly utilized to stabilize molecular conformations and improve pharmacokinetics.²⁻⁴ Explore our collection of phosphine oxides to advance your research!



Case studies



We offer: over 100 dialkyl phosphine oxides from stock on 5-10 gram scale.



References

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2. W.-S. Huang et al. *J. Med. Chem.* **2016**, 59, 4948.

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4. H. Lu et al. *J. Med. Chem.* **2024**, 67, 20580.



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