

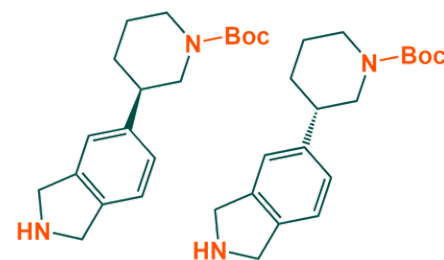


## LCC'S MOLECULES OF THE MONTH

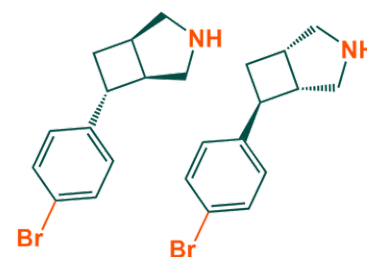
### Linkers for Heterobifunctionals

To form stable protein degrading complexes, optimal linkers are required. Although most PROTAC structures contained alkyl and PEG motifs, more recently linear linkers have been replaced by rigid linkers (saturated heterocycles) which can positively improve pharmacokinetics (PK) properties.

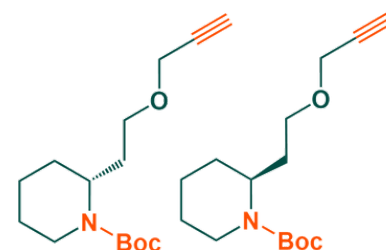
Since 58% of LCC's synthons contain two synthetic handles, we are able to offer chiral linker sets for heterobifunctional applications. Potential applications of bifunctional linkers include [PROTACs](#), [molecular glues](#), [DUBTACs](#), [LYTACs](#), [fragment growth](#), [fragment linking](#), [virtual library design](#) etc.



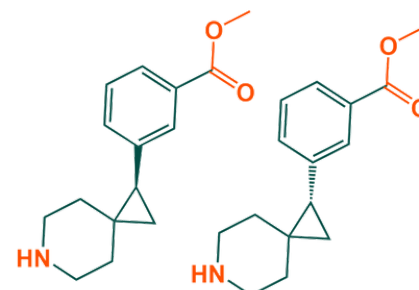
Mono-protected diamines



NH / ArBr



N-Boc / Acetylenes



NH / Esters\*

\*could also be N-PG / acid

The collection of **>1.6K bifunctional synthons** contains:

- **Chirally-pure material** with absolute stereochemistry determined
- A variety of **pharmaceutically relevant heterocycles**
- **Diverse exit vectors** (angle and length)

Combining this with our **co-located parallel synthesis laboratory**, we have the capability to take on many types of projects involving bifunctional linkers.

1Z. Liu, M. Hu, Y. Yang, C. Du, H. Zhou, C. Liu, Y. Chen, L. Fan, H. Ma, Y. Gong and Y. Xie, Molecular Biomedicine, 2022, 3.

To find out more about how you could make use of LCC's linker sets, along with our parallel synthesis laboratory, **please get in touch!**