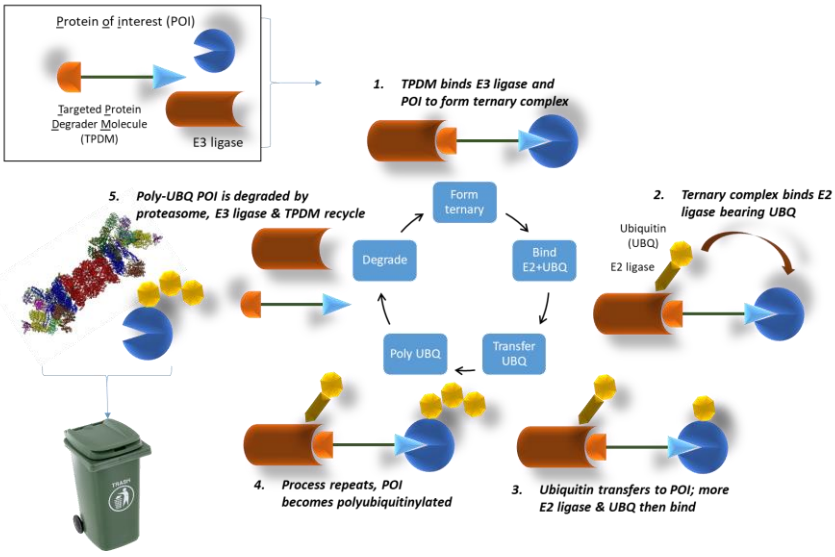
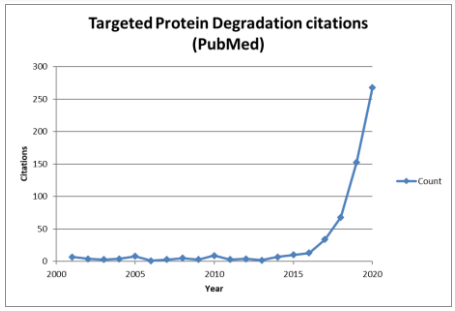
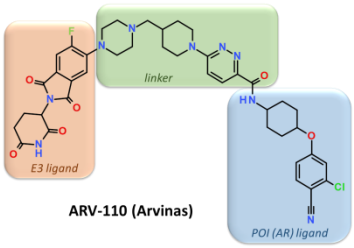
Key Organics
Chemistry | Innovation | Quality

Targeted Protein Degradation: Toolkit, Building Blocks & Linkers

Targeted Protein Degradation (TPD) use a “three component” compound (E3 ligase binder, linker, protein-of-interest binder) to harness the cells waste disposal mechanism (the Ubiquitin-Proteasome System, UPS) and target a specific protein for degradation.







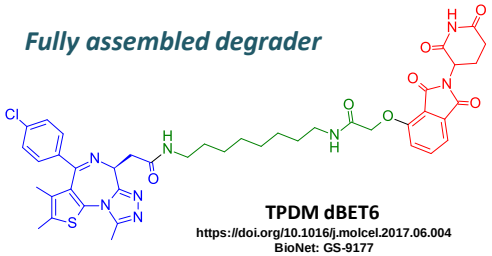
ARV-110 (Arvinas)

Reviews: Ciulli & Trainor, The Biochemist 2021; Cromm & Crews, Cell Chemical Biology 2017, p1181 - 1190

Key Organics has a range of off-the-shelf products available for workers in the TPD field. We provide support for academic, biotech and pharma customers in this area through our growing range of catalogue ligands, linkers , building blocks and tool compounds. Our bespoke fragment collection provides a rich resource for discovery of new ligands for both E3 ligases and target proteins of interest.

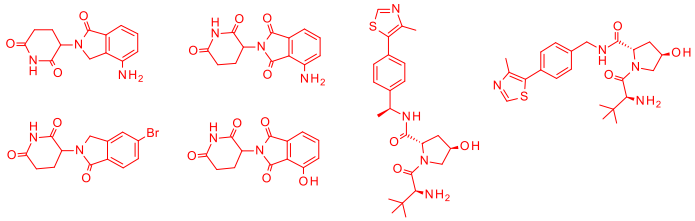
We can also work with you to design new ones, and routinely undertake synthesis of bespoke or non-commercial compound(s) on either a custom fee-for-service (FFS) or contract (FTE) basis to support Hit Identification, Hit-to-Lead and Lead Optimisation activities for your discovery program

Fully assembled degrader

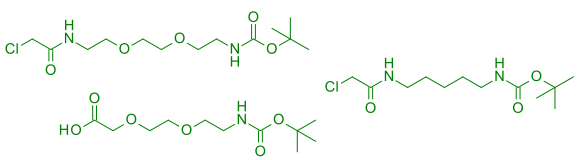


TPDM dBET6
https://doi.org/10.1016/j.molcel.2017.06.004
BioNet: GS-9177

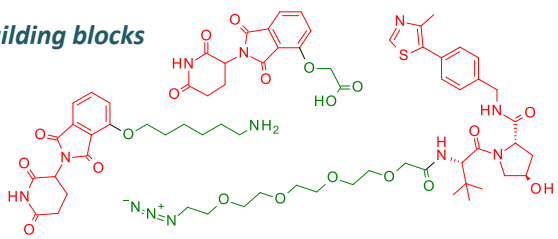
E3 ligase binders



Bifunctional linkers



Versatile E3-linker building blocks



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