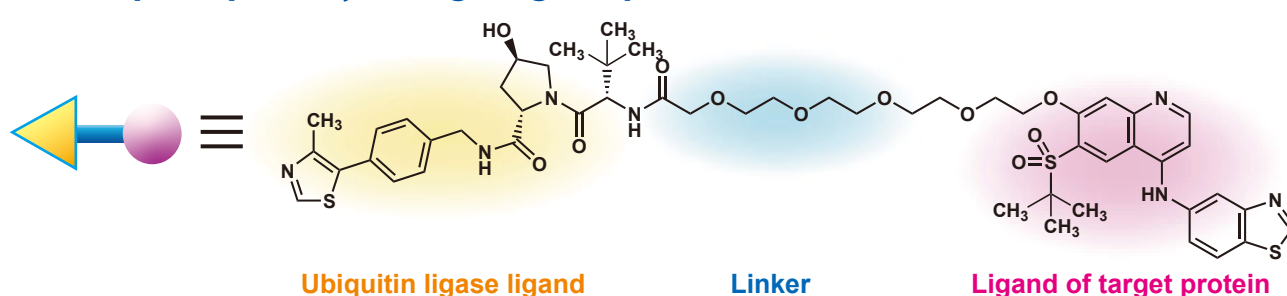


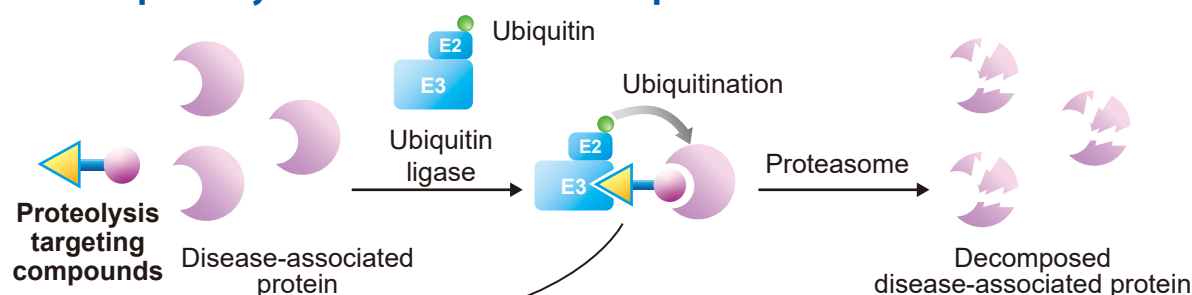
Building Blocks for Synthesis of Proteolysis Targeting Compounds

In recent years, research in medicinal chemistry has increasingly investigated the use of the ubiquitin-proteasome system (UPS) to combat diseases. As a result, a variety of chimera compounds have been synthesized consisting of a tag that can bind to ubiquitin ligase, a linker and another ligand that can bind to disease related proteins. This enables us to bring the disease related protein in proximity to an activated UPS to eliminate the protein.

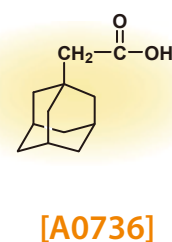
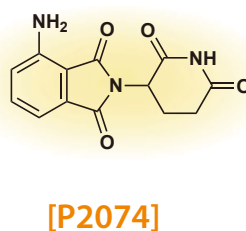
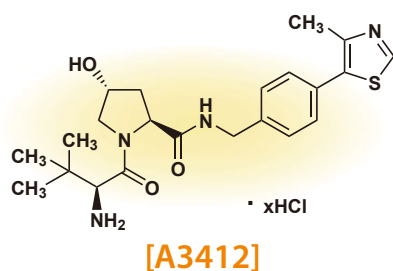
An example of proteolysis targeting compounds



Mechanism of proteolysis of disease-associated proteins



Ubiquitin Ligase Ligands



(New) (S,R,S)-AHPC Hydrochloride
Pomalidomide
1-Adamantaneacetic Acid

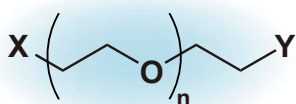
10mg / 50mg **[A3412]**
 25mg / 100mg **[P2074]**
 5g / 25g **[A0736]**

Building Blocks for Synthesis of Proteolysis Targeting Compounds

Bifunctional Linkers

Measuring the activity of these compounds has shown that the length of the linker is an important factor in triggering ubiquitination. TCI now offers hetero-bifunctional linkers with a variety of lengths. We are also open to inquiries regarding scale up and custom synthesis of linkers and ligands. To learn more, get in touch with your local TCI representative or use the contact information at the bottom of this page.

Reference A. Zorba, *et al.*, *Proc. Natl. Acad. Sci. USA* **2018**, *115*, E7285.
DOI: <https://doi.org/10.1073/pnas.1803662115>



X	Y	n			
		1	2	3	4
H ₂ N	COOtBu	B6249	A3325		B5900
BocHN	COOH		D5825	B6093	B5665
BocHN	NH ₂	B5683	B5141	B6080	

New Amino-PEG ₁ -acid <i>tert</i> -Butyl Ester	250mg [B6249]
Amino-PEG ₂ -acid <i>tert</i> -Butyl Ester	1g / 5g [A3325]
Amino-PEG ₄ -acid <i>tert</i> -Butyl Ester	250mg / 1g [B5900]
New (Boc-amino)-PEG ₂ -carboxylic Acid	250mg [D5825]
(Boc-amino)-PEG ₃ -carboxylic Acid	250mg [B6093]
(Boc-amino)-PEG ₄ -carboxylic Acid	250mg / 1g [B5665]
Boc-Amino-PEG ₁ -Amine	200mg / 1g [B5683]
Boc-Amino-PEG ₂ -Amine	200mg / 1g [B5141]
Boc-Amino-PEG ₃ -Amine	250mg / 1g [B6080]

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