

# One Stop Technical Solutions for PROTAC Drugs



Leveraging 20 years of experience in small molecule drug services and a globally leading technology platform, Porton is dedicated to providing one-stop CDMO services to global pharmaceutical companies. We support every stage of PROTAC drug development, from pre-clinical to commercialization, covering intermediates, DS, and DP, all in accordance with international standards.

Building Blocks Synthesis  
and Process Development

DS Synthesis and  
Process Development

DP Development

IND/NDA Dossier and  
CMC Solutions

## Our Advantages



### Global Network Solutions

R&D centers and production sites across the US, Europe, and China, meeting customers' demand with geographical solutions and cost-efficiency.



### Extensive Experience

Good experiences in small molecule DS development and CMC services with phase appropriate approach.



### Advanced Technical Platforms

Special technical platforms of metal/bio catalyst screening, flow chemistry, particle engineering and BA enhancement.



### Specialized Drug Product Team

Professional team specializing in drug product (DP) development and manufacturing.



### Reliable Systems

Well established GMP matrix and tracked records of customer audit and official inspection.

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Linked in



Contact Us

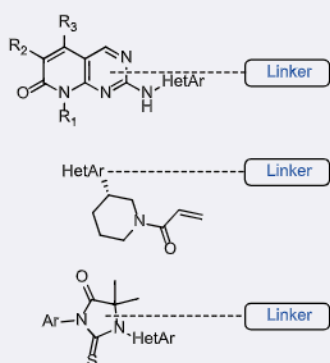


# Porton PROTAC Molecule Experience



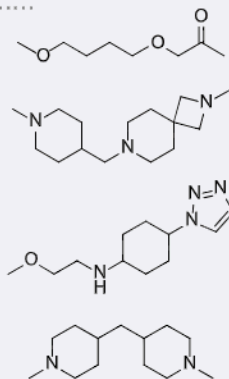
## Drug (POI Ligand)

- CDK4 / 6
- AR
- BTK
- .....



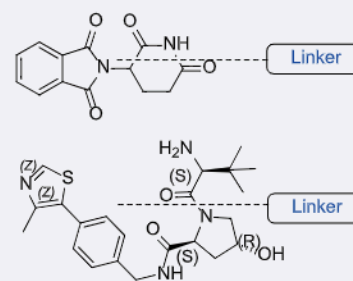
## Linker

- Alkyl chains
- PEG chains
- 1,2,3-Triazole (Click Chemistry)
- .....



## E3 Ligase Ligand

- CRBN Ligand
- VHL Ligand
- MDM2 Ligand
- XIAP Ligand
- .....



## PROTAC Drug Case List (Partial)

Case	Product Type	Stage	Production Scale	Featured Services and Technology
A	E3 Ligase Ligand + Linker	P3	Tons Scale GMP Intermediates	<ul style="list-style-type: none"> <li>• New Route Development</li> <li>• Flow Chemistry (enhanced impurity control)</li> <li>• Heck Reaction at High Temperature</li> </ul>
B	DS+DP	P1/IND, P2	Pilot Scale	<ul style="list-style-type: none"> <li>• New Route Development (to address the low yield due to poor selectivity)</li> <li>• Crystallization Development (to improve residue Pd removal)</li> </ul>
C	DS	P1/IND, P2	Pilot Scale	<ul style="list-style-type: none"> <li>• Crystallization Development (to address the filtration issues due to poor solubilities of intermediates and API)</li> </ul>
D	DS	P2	Kilo Lab Scale	<ul style="list-style-type: none"> <li>• Crystallization Development (to address the complicated impurity profile due to high MW &gt;1000)</li> </ul>
E	E3 Ligase Ligand + Linker	P1	Kilo Lab Scale	<ul style="list-style-type: none"> <li>• New Route Development (solutions for regio-selectivity)</li> <li>• Dangerous Reagent (organo-azide)</li> </ul>
F	DS	P0	Kilo Lab Scale	<ul style="list-style-type: none"> <li>• Crystallization Development</li> <li>• Application of Toxic Reagent (methyl hydrazine)</li> <li>• Development of Safe Process of Grignard Reaction</li> </ul>