

Linkers for Antibody-Drug Conjugation (ADC)

Cleavable and Non-cleavable Linkers for ADC Programs

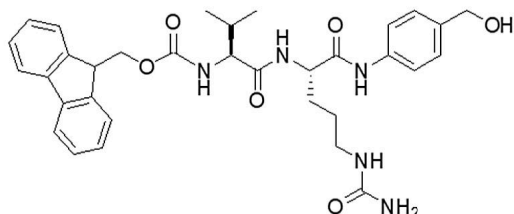
Chemically linking two or more molecules, proteins or other biomolecules by a covalent bond is a key strategy for ADC and other applications.

Charnwood Molecular's chemistry team have extensive experience in the synthesis of cleavable and non-cleavable linker technology. Functionalised linkers are selected according to their intended application and mechanism of action. Such linkers include:

- Disulphide Linkers
- pH-Sensitive Linkers
- Non-cleavable Linkers

- β -Glucuronide Linkers
- Peptide Linkers

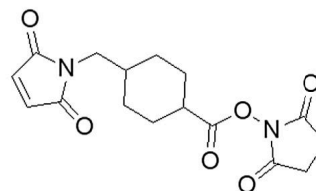
Peptide Linker



Fmoc-Val-Cit-PAB

Jain, N. *et al.* Current ADC Linker Chemistry
Pharm. Res. **2015**, *32*, 3526-3540.

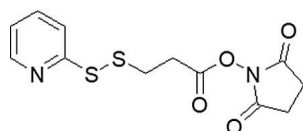
Non-cleavable Linker



SMCC

Nolting, B. *et al.* Linker Technologies for Antibody-Drug Conjugates.
Methods Mol. Biol. **2013**, *1045*, 71-100.

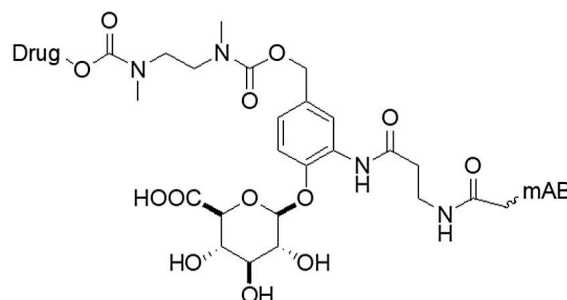
Disulphide Linker



Py-ds-Prp-OSu

McCombs, J.R.; Owen, S.C. Antibody-Drug Conjugates: Design and Selection of Linker, Payload and Conjugation Chemistry.
AAPS J. **2015**, *17*(2), 339-351.

β -Glucuronide Linker




Jeffrey, S.C.; *et al.* Expanded Utility of the β -Glucuronide Linker: ADCs That Deliver Phenolic Cytotoxic Agents.
ACS Med. Chem. Lett. **2010**, *1*, 277-280.

Charnwood Molecular can provide access to a range of ADC linkers, spacers and intermediates to support, enhance and accelerate your ADC program. Please contact us to discuss your requirements.

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