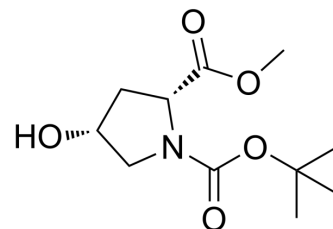


## (2R,4R)-1-tert-Butyl 2-methyl 4-hydroxypyrrolidine-1,2-dicarboxylate

Cat. No.:	HY-W002680
CAS No.:	114676-69-6
Molecular Formula:	C <sub>11</sub> H <sub>19</sub> NO <sub>5</sub>
Molecular Weight:	245.27
Target:	ADC Linker; PROTAC Linkers
Pathway:	Antibody-drug Conjugate/ADC Related; PROTAC
Storage:	<div>Powder</div> <div>-20°C 3 years</div> <div>4°C 2 years</div> <div>In solvent</div> <div>-80°C 6 months</div> <div>-20°C 1 month</div>



### BIOLOGICAL ACTIVITY

Description	N-Boc-cis-4-hydroxy-D-proline methyl ester is a non-cleavable ADC linker used in the synthesis of antibody-drug conjugates (ADCs). N-Boc-cis-4-hydroxy-D-proline methyl ester is also a alkyl chain-based PROTAC linker that can be used in the synthesis of PROTACs[1]
IC <sub>50</sub> & Target	Non-cleavable
In Vitro	<p>ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker<sup>[1]</sup>.</p> <p>PROTACs contain two different ligands connected by a linker; one is a ligand for an E3 ubiquitin ligase and the other is for the target protein. PROTACs exploit the intracellular ubiquitin-proteasome system to selectively degrade target proteins<sup>[2]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

- [1]. Beck A, et al. Strategies and challenges for the next generation of antibody-drug conjugates. Nat Rev Drug Discov. 2017;16(5):315-337.
- [2]. Nalawansa DA, et al. PROTACs: An Emerging Therapeutic Modality in Precision Medicine. Cell Chem Biol. 2020;27(8):998-985.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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