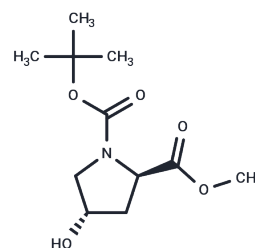


## (2R,4S)-1-tert-Butyl 2-methyl 4-hydroxypyrrolidine-1,2-dicarboxylate

### Chemical Properties

CAS No. :	135042-17-0
Formula:	C <sub>11</sub> H <sub>19</sub> N <sub>1</sub> O <sub>5</sub>
Molecular Weight:	245.27
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



### Biological Description

Description	(2R,4S)-1-tert-Butyl 2-methyl 4-hydroxypyrrolidine-1,2-dicarboxylate is a non-degradable ADC linker used in the synthesis of antibody-drug conjugates (ADCs). (2R,4S)-1-tert-Butyl 2-methyl 4-hydroxypyrrolidine-1,2-dicarboxylate is also an alkyl-chain-based PROTAC linker used to prepare PROTAC molecules that mediate the degradation of target proteins. (2R,4S)-1-tert-Butyl 2-methyl 4-hydroxypyrrolidine-1,2-dicarboxylate can also serve as an organic synthesis intermediate in medicinal chemistry for the construction and modification of molecules containing proline structures.
Targets(IC50)	ADC Linker,PROTAC Linker

### Solubility Information

Solubility	DMSO: 160 mg/mL (652.34 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0771 mL	20.3857 mL	40.7714 mL
5 mM	0.8154 mL	4.0771 mL	8.1543 mL
10 mM	0.4077 mL	2.0386 mL	4.0771 mL
50 mM	0.0815 mL	0.4077 mL	0.8154 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Beck A, et al. Strategies and challenges for the next generation of antibody-drug conjugates. Nat Rev Drug Discov. 2017;16(5):315-337.

Nalawansa DA, et al. PROTACs: An Emerging Therapeutic Modality in Precision Medicine. Cell Chem Biol. 2020;27(8):998-985.

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