

## Carvedilol-D4

### Chemical Properties

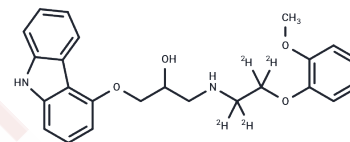
CAS No. : 1133705-56-2

Formula: C<sub>24</sub>H<sub>26</sub>N<sub>2</sub>O<sub>4</sub>

Molecular Weight: 410.50

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



### Biological Description

Description	Carvedilol-D4 is the deuterated form of Carvedilol. Carvedilol (T0447) (BM 14190) acts as a non-selective $\beta/\alpha$ -1 receptor blocker and inhibits lipid peroxidation with an IC <sub>50</sub> of 5 $\mu$ M. It serves as a versatile antihypertensive agent with potential applications in research on angina and congestive heart failure. Furthermore, Carvedilol (T0447) induces autophagy and inhibits the NLRP3 inflammasome.
Targets(IC50)	Adrenergic Receptor, Autophagy

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4361 mL	12.1803 mL	24.3605 mL
5 mM	0.4872 mL	2.4361 mL	4.8721 mL
10 mM	0.2436 mL	1.218 mL	2.4361 mL
50 mM	0.0487 mL	0.2436 mL	0.4872 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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