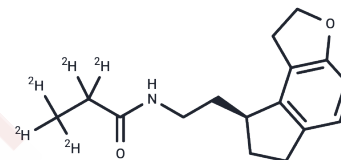


## Ramelteon-D5

## Chemical Properties

CAS No. :	1134159-63-9
Formula:	C <sub>16</sub> H <sub>16</sub> D <sub>5</sub> NO <sub>2</sub>
Molecular Weight:	264.37
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	Ramelteon-D5 is a deuterated compound of Ramelteon. Ramelteon (T1463) has a CAS number of 196597-26-9. Ramelteon (T1463) is a Melatonin Receptor Agonist. The mechanism of action of ramelteon is as a Melatonin Receptor Agonist.
Targets(IC50)	Melatonin Receptor

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7826 mL	18.9129 mL	37.8258 mL
5 mM	0.7565 mL	3.7826 mL	7.5652 mL
10 mM	0.3783 mL	1.8913 mL	3.7826 mL
50 mM	0.0757 mL	0.3783 mL	0.7565 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

1. Kato K, et al. Neuropharmacology, 2005, 48(2), 301-310.

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