

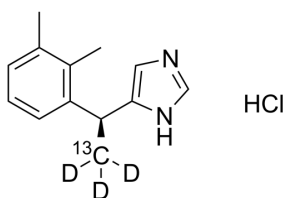
## Dexmedetomidine-<sup>13</sup>C,<sub>3</sub>D<sub>3</sub> (hydrochloride)

Cat. No.: HY-17034AS  
Batch No.: 280526  
Chemical Name: Dexmedetomidine-<sup>13</sup>C,<sub>3</sub>D<sub>3</sub>, hydrochloride

### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: C<sub>12</sub><sup>13</sup>CH<sub>14</sub>D<sub>3</sub>ClN<sub>2</sub>  
Molecular Weight: 240.75  
Storage: -20°C, sealed storage, away from moisture  
\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

### Chemical Structure:



### ANALYTICAL DATA

Appearance: White to off-white (Solid)  
<sup>1</sup>H NMR Spectrum: Consistent with structure  
MS: Consistent with structure  
Purity (HPLC): 99.93%  
Isotopic Enrichment: 99.0% atom <sup>13</sup>C  
99.5% atom D  
Water(KF): 0.8%  
Conclusion: The product has been tested and complies with the given specifications.

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

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