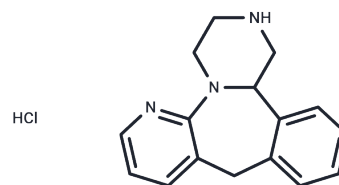


## Desmethyl Mirtazapine (hydrochloride)

### Chemical Properties

|                   |                                                          |
|-------------------|----------------------------------------------------------|
| CAS No. :         | 1188265-41-9                                             |
| Formula:          | C <sub>16</sub> H <sub>18</sub> ClN <sub>3</sub>         |
| Molecular Weight: | 287.79                                                   |
| Appearance:       | no data available                                        |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



### Biological Description

|             |                                                                                                                                                     |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Desmethyl mirtazapine is a metabolite of the antidepressant mirtazapine. It is formed from mirtazapine by the cytochrome P450 (CYP) isoform CYP3A4. |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|

### Solubility Information

|            |                                                                                     |
|------------|-------------------------------------------------------------------------------------|
| Solubility | DMSO: Soluble<br>( $< 1$ mg/ml refers to the product slightly soluble or insoluble) |
|------------|-------------------------------------------------------------------------------------|

### Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 3.4748 mL | 17.3738 mL | 34.7476 mL |
| 5 mM  | 0.695 mL  | 3.4748 mL  | 6.9495 mL  |
| 10 mM | 0.3475 mL | 1.7374 mL  | 3.4748 mL  |
| 50 mM | 0.0695 mL | 0.3475 mL  | 0.695 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.

### Reference

Störmer, E., von Moltke, L.L., Shader, R.I., et al. Metabolism of the antidepressant mirtazapine in vitro: Contribution of cytochromes P-450 1A2, 2D6, and 3A4. *Drug Metab. Dispos.* 28(10):1168-1175 (2000)

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