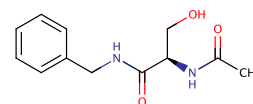


O-Desmethyl Lacosamide

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 175481-38-6 |
| Formula: | C ₁₂ H ₁₆ N ₂ O ₃ |
| Molecular Weight: | 236.271 |
| 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 | O-Desmethyl lacosamide is a potential impurity found in commercial preparations of lacosamide).1,2 |
| Targets(IC50) | Drug Metabolite |

Solubility Information

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

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 4.2324 mL | 21.1622 mL | 42.3245 mL |
| 5 mM | 0.8465 mL | 4.2324 mL | 8.4649 mL |
| 10 mM | 0.4232 mL | 2.1162 mL | 4.2324 mL |
| 50 mM | 0.0846 mL | 0.4232 mL | 0.8465 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

- Molleti, S., Rao, V., and Jayaveera, K.N. Stability indicating RP-UPLC method for the determination of lacosamide and its impurities in bulk drugs and its pharmaceutical dosage forms *Der Pharma Chemica* 5(1)81-89(2013)
- Yang, A., Hu, F., Chen, M., et al. Improved synthesis and impurity identification of (R)-lacosamide *Org. Proc. Res. Dev.* 23(5)818-824(2019)

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