

## N-ACETYLTRYPTAMINE

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 1016-47-3   |
| Formula:          | C <sub>12</sub> H <sub>14</sub> N <sub>2</sub> O  |
| Molecular Weight: | 202.252   |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |

## Biological Description

|               |   |
|---------------|---|
| Description   | N-ACETYLTRYPTAMINE is a partial agonist for melatonin receptors in the retina. Also used for determination of serotonin N-acetyl transferase. |
| Targets(IC50) | Melatonin Receptor  |

## Solubility Information

|                     |   |
|---------------------|---|
| Solubility          | DMSO: 250.00 mg/mL (1236.08 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble)   |
| In vivo Formulation | 10% DMSO+90% Saline: 10.00 mg/mL (49.44 mM),Solution.<br><i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 4.9444 mL | 24.7219 mL | 49.4438 mL |
| 5 mM  | 0.9889 mL | 4.9444 mL  | 9.8888 mL  |
| 10 mM | 0.4944 mL | 2.4722 mL  | 4.9444 mL  |
| 50 mM | 0.0989 mL | 0.4944 mL  | 0.9889 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

Dubocovich M L . Characterization of a retinal melatonin receptor.[J]. Journal of Pharmacology & Experimental Therapeutics, 1985, 234(2):395.

Dubocovich M L . Luzindole (N-0774): a novel melatonin receptor antagonist.[J]. Journal of Pharmacology & Experimental Therapeutics, 1988, 246(3):902-910.

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