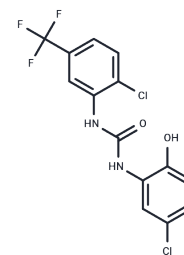


NS 1738

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 501684-93-1   |
| Formula:          | C <sub>14</sub> H <sub>9</sub> Cl <sub>2</sub> F <sub>3</sub> N <sub>2</sub> O <sub>2</sub>                         |
| Molecular Weight: | 365.13  |
| 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   | NS 1738 (NSC-213859) is a positive allosteric modulator of the $\alpha$ 7-containing neuronal nicotinic acetylcholine receptors (nAChRs) |
| Targets(IC50) | AChR   |

## Solubility Information

|                     |  |
|---------------------|--|
| Solubility          | DMSO: 300 mg/mL (821.63 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble)   |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (13.69 mM), Sonication is recommended.<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  | 2.7388 mL | 13.6938 mL | 27.3875 mL |
| 5 mM  | 0.5478 mL | 2.7388 mL  | 5.4775 mL  |
| 10 mM | 0.2739 mL | 1.3694 mL  | 2.7388 mL  |
| 50 mM | 0.0548 mL | 0.2739 mL  | 0.5478 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

Timmermann D B , Gronlien J H , Kohlhaas K L , et al. An Allosteric Modulator of the  $\alpha 7$  Nicotinic Acetylcholine Receptor Possessing Cognition-Enhancing Properties in Vivo[J]. Journal of Pharmacology and Experimental Therapeutics, 2007, 323(1):294-307.

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