

TLR7/8/9-IN-1

## Chemical Properties

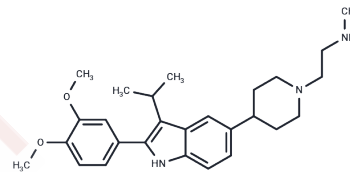
CAS No. : 2180127-82-4

Formula: C<sub>27</sub>H<sub>37</sub>N<sub>3</sub>O<sub>2</sub>

Molecular Weight: 435.6

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                | TLR7/8/9-IN-1 is a potent inhibitor of Toll-like receptors 7, 8, and 9 (TLR7/8/9) with an IC <sub>50</sub> of 43 nM. |
| Targets(IC <sub>50</sub> ) | TLR  |

## Solubility Information

|                     |  |
|---------------------|--|
| Solubility          | DMSO: 6.11 mg/mL (14.03 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)   |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.3 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  | 2.2957 mL | 11.4784 mL | 22.9568 mL |
| 5 mM  | 0.4591 mL | 2.2957 mL  | 4.5914 mL  |
| 10 mM | 0.2296 mL | 1.1478 mL  | 2.2957 mL  |
| 50 mM | 0.0459 mL | 0.2296 mL  | 0.4591 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

Mussari CP, et al. Discovery of Potent and Orally Bioavailable Small Molecule Antagonists of Toll-like Receptors 7/8/9 (TLR7/8/9). ACS Med Chem Lett. 2020 Jul 29;11(9):1751-1758.

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