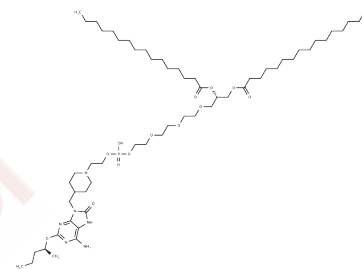


INI-4001

## Chemical Properties

CAS No. : 2549050-07-7  
 Formula: C<sub>59</sub>H<sub>109</sub>N<sub>6</sub>O<sub>13</sub>P  
 Molecular Weight: 1141.5  
 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	INI-4001, a TLR7/8 agonist, exhibits EC <sub>50</sub> values of 1.89 μM and 4.86 μM for TLR7 and TLR8, respectively. This compound induces signal transduction and SEAP production through TLR7 and TLR8. Furthermore, INI-4001 stimulates the production of high-affinity, fentanyl-specific antibodies, effectively preventing fentanyl from crossing the human blood-brain barrier. It serves as an effective adjuvant in anti-fentanyl vaccines for individuals with opioid use disorder (OUD).
Targets(IC <sub>50</sub> )	TLR

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.876 mL	4.3802 mL	8.7604 mL
5 mM	0.1752 mL	0.876 mL	1.7521 mL
10 mM	0.0876 mL	0.438 mL	0.876 mL
50 mM	0.0175 mL	0.0876 mL	0.1752 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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