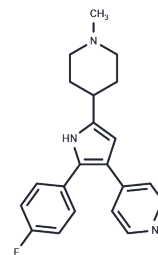


MBP146-78

## Chemical Properties

CAS No. : 188343-77-3  
 Formula: C<sub>21</sub>H<sub>22</sub>N<sub>3</sub>  
 Molecular Weight: 335.42  
 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   | MBP146-78 is a potent and selective inhibitor of cGMP-dependent protein kinases (cGMP-dependent protein kinases). |
| Targets(IC50) | Parasite  |

## Solubility Information

|            |  |
|------------|--|
| Solubility | DMSO: 7.69 mg/mL (22.93 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.9813 mL | 14.9067 mL | 29.8134 mL |
| 5 mM  | 0.5963 mL | 2.9813 mL  | 5.9627 mL  |
| 10 mM | 0.2981 mL | 1.4907 mL  | 2.9813 mL  |
| 50 mM | 0.0596 mL | 0.2981 mL  | 0.5963 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

Nare B , Allocco J J , Liberator P A , et al. Evaluation of a Cyclic GMP-Dependent Protein Kinase Inhibitor in Treatment of Murine Toxoplasmosis: Gamma Interferon Is Required for Efficacy[J]. Antimicrobial Agents and Chemotherapy, 2002, 46(2):300-307.

Wei X, Qiu J, Lai R, et al. A human organoid drug screen identifies  $\alpha$ 2-adrenergic receptor signaling as a therapeutic target for cartilage regeneration. Cell Stem Cell. 2024

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