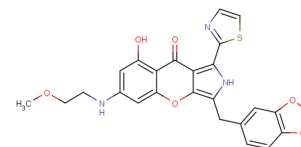


## PDE5-IN-2

## Chemical Properties

|                   |  |
|-------------------|--|
| CAS No.:          | 2244517-61-9   |
| Formula:          | C <sub>25</sub> H <sub>21</sub> N <sub>3</sub> O <sub>6</sub> S        |
| Molecular Weight: | 491.52   |
| Appearance:       | N/A  |
| Storage:          | 0-4°C for short term (days to weeks), or -20°C for long term (months). |



## Biological Description

|                            |   |
|----------------------------|---|
| Description                | PDE5-IN-2 is a potent, highly selective, and orally active inhibitor of PDE5 (IC <sub>50</sub> of 0.31 nM)                      |
| Targets(IC <sub>50</sub> ) | PDE5A1: 0.31 nM<br>PDE6C: 1.2 nM<br>PDE4D2: 43 nM<br>PDE10A: 46 nM<br>PDE2A: 106 nM   |
| In vitro                   | PDE5-IN-2 has at least 1000-fold selectivity over PDE1B, PDE3A, PDE7A1, PDE8A1, and PDE9A2 (IC <sub>50</sub> s, >32 000 nM)[1]. |
| In vivo                    | PDE5-IN-2 shows anti-pulmonary arterial hypertension activity[1].   |

## Solubility Information

|            |   |
|------------|---|
| Solubility | < 1 mg/ml refers to the product slightly soluble or insoluble |
|------------|---|

## Preparing Stock Solutions

|       | 1mg      | 5mg       | 10mg      |
|-------|----------|-----------|-----------|
| 1 mM  | 2.035 mL | 10.173 mL | 20.345 mL |
| 5 mM  | 0.407 mL | 2.035 mL  | 4.069 mL  |
| 10 mM | 0.203 mL | 1.017 mL  | 2.035 mL  |
| 50 mM | 0.041 mL | 0.203 mL  | 0.407 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Wu D, et al. Optimization of Chromeno[2,3- c]pyrrol-9(2 H)-ones as Highly Potent, Selective, and Orally Bioavailable PDE5 Inhibitors: Structure-Activity Relationship, X-ray Crystal Structure, and Pharmacodynamic Effect on Pulmonary Arterial Hypertension. J Med Chem. 2018 Sep 27;61(18):8468-8473.

Inhibitors · Natural Compounds · Compound Libraries

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