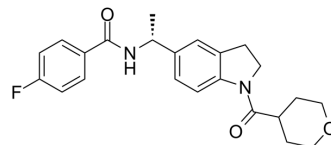


## LY-3381916

|                           |  |       |         |
|---------------------------|--|-------|---------|
| <b>Cat. No.:</b>          | HY-111540  |       |         |
| <b>CAS No.:</b>           | 2166616-75-5   |       |         |
| <b>Molecular Formula:</b> | C <sub>23</sub> H <sub>25</sub> FN <sub>2</sub> O <sub>3</sub> |       |         |
| <b>Molecular Weight:</b>  | 396.45   |       |         |
| <b>Target:</b>            | Indoleamine 2,3-Dioxygenase (IDO)                              |       |         |
| <b>Pathway:</b>           | Metabolic Enzyme/Protease                                      |       |         |
| <b>Storage:</b>           | Powder   | -20°C | 3 years |
|                           |  | 4°C   | 2 years |
|                           | In solvent   | -80°C | 2 years |
|                           |  | -20°C | 1 year  |



### SOLVENT & SOLUBILITY

|   |  |                      |              |             |
|---|--|----------------------|--------------|-------------|
| <b>In Vitro</b>   | DMSO : 300 mg/mL (756.72 mM; Need ultrasonic)  |                      |              |             |
|   |  | <b>Solvent</b>       | <b>Mass</b>  |             |
|   |  | <b>Concentration</b> | <b>1 mg</b>  | <b>5 mg</b> |
|   | <b>Preparing Stock Solutions</b>   |                      | <b>10 mg</b> |             |
|   | <b>1 mM</b>  | 2.5224 mL            | 12.6119 mL   | 25.2239 mL  |
|   | <b>5 mM</b>  | 0.5045 mL            | 2.5224 mL    | 5.0448 mL   |
|   | <b>10 mM</b>   | 0.2522 mL            | 1.2612 mL    | 2.5224 mL   |
| Please refer to the solubility information to select the appropriate solvent. |  |                      |              |             |
| <b>In Vivo</b>  | <ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline<br/>Solubility: ≥ 2.5 mg/mL (6.31 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline)<br/>Solubility: ≥ 2.5 mg/mL (6.31 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil<br/>Solubility: ≥ 2.5 mg/mL (6.31 mM); Clear solution</li> </ol> |                      |              |             |

### BIOLOGICAL ACTIVITY

|                                     |   |
|-------------------------------------|---|
| <b>Description</b>                  | LY-3381916 (IDO1-IN-5) is a potent, selective and brain penetrated inhibitor of IDO1 activity, binds to apo-IDO1 lacking heme rather than mature heme-bound IDO1 <sup>[1]</sup> .                                     |
| <b>IC<sub>50</sub> &amp; Target</b> | IDO1  |
| <b>In Vitro</b>                     | LY-3381916 (IDO1-IN-5) (up to 100 μM) shows no obvious agonism of aryl hydrocarbon receptor (AHR) <sup>[1]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

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## CUSTOMER VALIDATION

- Immune Netw. 2020 Oct 19;20(5):e36.
- The University of Auckland. 2023 Mar.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

[1]. Frank C. Dorsey, et al. Abstract 5245: Identification and characterization of the IDO1 inhibitor LY3381916. Cancer Research. 2018, 78(13).

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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