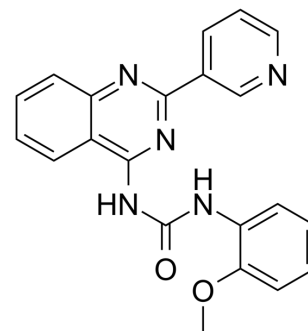


## VUF-5574

|                           |   |                |
|---------------------------|---|----------------|
| <b>Cat. No.:</b>          | HY-103189   |                |
| <b>CAS No.:</b>           | 280570-45-8   |                |
| <b>Molecular Formula:</b> | C <sub>21</sub> H <sub>17</sub> N <sub>5</sub> O <sub>2</sub> |                |
| <b>Molecular Weight:</b>  | 371.39  |                |
| <b>Target:</b>            | Adenosine Receptor  |                |
| <b>Pathway:</b>           | GPCR/G Protein  |                |
| <b>Storage:</b>           | Powder  | -20°C 3 years  |
|                           | In solvent  | -80°C 6 months |
|                           |   | -20°C 1 month  |



### SOLVENT & SOLUBILITY

|   |   |   |             |             |              |
|---|---|---|-------------|-------------|--------------|
| <b>In Vitro</b>   | DMSO : 100 mg/mL (269.26 mM; Need ultrasonic)   |   |             |             |              |
|   | <b>Preparing Stock Solutions</b>  | <b>Solvent</b> \ <b>Mass</b> \ <b>Concentration</b> | <b>1 mg</b> | <b>5 mg</b> | <b>10 mg</b> |
|   |   | <b>1 mM</b>   | 2.6926 mL   | 13.4629 mL  | 26.9259 mL   |
|   |   | <b>5 mM</b>   | 0.5385 mL   | 2.6926 mL   | 5.3852 mL    |
|   |   | <b>10 mM</b>  | 0.2693 mL   | 1.3463 mL   | 2.6926 mL    |
| Please refer to the solubility information to select the appropriate solvent. |   |   |             |             |              |
| <b>In Vivo</b>  | 1. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 2.5 mg/mL (6.73 mM); Clear solution |   |             |             |              |

### BIOLOGICAL ACTIVITY

|                                     |  |
|-------------------------------------|--|
| <b>Description</b>                  | VUF-5574 is a selective antagonist of adenosine A <sup>3</sup> receptor with a K <sub>i</sub> of 4.03 nM for the recombinant human receptor <sup>[1]</sup> . |
| <b>IC<sub>50</sub> &amp; Target</b> | Recombinant Human Adenosine A <sup>3</sup> receptor (A <sup>3</sup> R)<br>4.03 nM (K <sub>i</sub> )  |

### REFERENCES

[1]. van Muijlwijk-Koezen JE, et al. Isoquinoline and quinazoline urea analogues as antagonists for the human adenosine A(3) receptor. J Med Chem. 2000 Jun 1;43(11):2227-38.

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

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