# LUF5771

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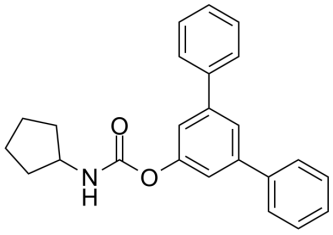
|---|---|
| **Cat. No.:** | HY-139303 |
| **CAS No.:** | 1141802-49-4 |
| **Molecular Formula:** | $C_{24}H_{23}NO_2$ |
| **Molecular Weight:** | 357.44 |
| **Target:** | Others |
| **Pathway:** | Others |
| **Storage:** | Powder -20°C 3 years<br>4°C 2 years<br>In solvent -80°C 6 months<br>-20°C 1 month |



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 100 mg/mL (279.77 mM; Need ultrasonic)

| Preparing Stock Solutions | Mass / Solvent / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 2.7977 mL | 13.9884 mL | 27.9767 mL |
| | 5 mM | 0.5595 mL | 2.7977 mL | 5.5953 mL |
| | 10 mM | 0.2798 mL | 1.3988 mL | 2.7977 mL |

Please refer to the solubility information to select the appropriate solvent.

**In Vivo**

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.99 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

LUF5771 is a potent allosteric recombinant luteinizing hormone (recLH) and Org 43553 inhibitor. LUF5771 is able to partially activate the LH receptor with low efficacy[1].

**$IC_{50}$ & Target**

recLH and Org 43553[1]

**In Vitro**

LUF5771 (1 μM or 10 μM) allosteric inhibition is concentration-dependent. LUF5771 significantly increases radioligand dissociation. LUF5771 probably binds to the seven transmembrane domain like Org 43553 does. LUF5771 (10 μM) alone is able to partially activate the LH receptor by 31±4%[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Laura H. Heitman, et al. Substituted Terphenyl Compounds as the First Class of Low Molecular Weight Allosteric Inhibitors of the Luteinizing Hormone Receptor. Journal of Medicinal Chemistry 2009 52 (7), 2036-2042



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