# YS-67

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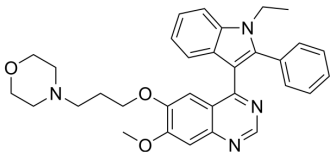
|---|---|
| **Cat. No.:** | HY-157413 |
| **CAS No.:** | 2761327-15-3 |
| **Molecular Formula:** | $C_{32}H_{34}N_4O_3$ |
| **Molecular Weight:** | 522.64 |
| **Target:** | EGFR |
| **Pathway:** | JAK/STAT Signaling; Protein Tyrosine Kinase/RTK |
| **Storage:** | Powder -20°C 3 years<br>4°C 2 years<br>In solvent -80°C 6 months<br>-20°C 1 month |



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 20 mg/mL (38.27 mM; ultrasonic and warming and heat to 60°C)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 1.9134 mL | 9.5668 mL | 19.1336 mL |
| | 5 mM | 0.3827 mL | 1.9134 mL | 3.8267 mL |
| | 10 mM | 0.1913 mL | 0.9567 mL | 1.9134 mL |

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

**In Vivo**

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2 mg/mL (3.83 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2 mg/mL (3.83 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

YS-67 is a potent inhibitor of EGFR with an $IC_{50}$ of 5.2 nM. YS-67 significantly inhibits p-EGFR and p-AKT. YS-67 inhibits the proliferation of A549, PC-9, and A431cells with $IC_{50}$s of 4.1, 0.5, and 2.1 μM, respectively[1].

## REFERENCES

[1]. He P, et al. Design, synthesis and biological evaluation of structurally new 4-indolyl quinazoline derivatives as highly potent, selective and orally bioavailable EGFR inhibitors. Bioorg Chem. 2024 Jan;142:106970.

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

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