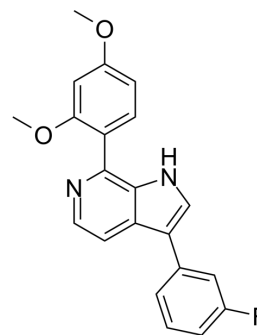


## Antiproliferative agent-37

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-156183  |
| <b>CAS No.:</b>           | 2989275-31-0   |
| <b>Molecular Formula:</b> | C <sub>21</sub> H <sub>17</sub> FN <sub>2</sub> O <sub>2</sub>   |
| <b>Molecular Weight:</b>  | 348.37   |
| <b>Target:</b>            | Others   |
| <b>Pathway:</b>           | Others   |
| <b>Storage:</b>           | 4°C, stored under nitrogen, away from moisture<br>* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture) |



### SOLVENT & SOLUBILITY

|   |  |                          |           |            |            |
|---|--|--------------------------|-----------|------------|------------|
| <b>In Vitro</b>   | DMSO : 100 mg/mL (287.05 mM; Need ultrasonic)  |                          |           |            |            |
|   |  | Solvent<br>Concentration | Mass      |            |            |
|   | <b>Preparing Stock Solutions</b>   |                          | 1 mg      | 5 mg       | 10 mg      |
|   |  | 1 mM                     | 2.8705 mL | 14.3526 mL | 28.7051 mL |
|   |  | 5 mM                     | 0.5741 mL | 2.8705 mL  | 5.7410 mL  |
|   | 10 mM  | 0.2871 mL                | 1.4353 mL | 2.8705 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 >> 40% PEG300 >> 5% Tween-80 >> 45% saline<br>Solubility: ≥ 2.5 mg/mL (7.18 mM); Clear solution |                          |           |            |            |
|   | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)<br>Solubility: ≥ 2.5 mg/mL (7.18 mM); Clear solution            |                          |           |            |            |
|   | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 2.5 mg/mL (7.18 mM); Clear solution                            |                          |           |            |            |

### BIOLOGICAL ACTIVITY

|                    |  |
|--------------------|--|
| <b>Description</b> | Antiproliferative agent-37 (compound 10J) shows anti-proliferative effect by arresting the cells at the G2/M phase of the cell cycle <sup>[1]</sup> .  |
| <b>In Vitro</b>    | Antiproliferative agent-37 (compound 10J) shows cytotoxic/cytostatic effect against A431, HT1080, MCF-7, MDA-MB-231, and AG01523 cell strains, with IC <sub>50</sub> values of 0.013±0.004, 0.014±0.008, 0.14±0.04, 0.018±0.009, 56.3±4.3 μM, respectively <sup>[1]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

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## REFERENCES

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[1]. Lougiakis N, et al. Synthesis, cytotoxic activity evaluation and mechanistic investigation of novel 3,7-diarylsubstituted 6-azaindoles. Eur J Med Chem. 2023 Sep 13;261:115804.

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

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