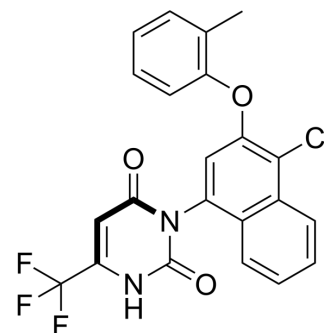


## BAY-252

|                           |  |       |          |
|---------------------------|--|-------|----------|
| <b>Cat. No.:</b>          | HY-148242A   |       |          |
| <b>CAS No.:</b>           | 2639638-67-6   |       |          |
| <b>Molecular Formula:</b> | C <sub>22</sub> H <sub>14</sub> ClF <sub>3</sub> N <sub>2</sub> O <sub>3</sub> |       |          |
| <b>Molecular Weight:</b>  | 446.81   |       |          |
| <b>Target:</b>            | Others   |       |          |
| <b>Pathway:</b>           | Others   |       |          |
| <b>Storage:</b>           | Powder   | -20°C | 3 years  |
|                           |  | 4°C   | 2 years  |
|                           | In solvent   | -80°C | 6 months |
|                           |  | -20°C | 1 month  |



### SOLVENT & SOLUBILITY

|   |   |                          |            |            |
|---|---|--------------------------|------------|------------|
| <b>In Vitro</b>   | DMSO : 130 mg/mL (290.95 mM; Need ultrasonic)   |                          |            |            |
|   |   | Solvent<br>Concentration | Mass       |            |
|   |   |                          | 1 mg       | 5 mg       |
|   |   |                          | 10 mg      |            |
| <b>Preparing Stock Solutions</b>  | <b>1 mM</b>   | 2.2381 mL                | 11.1904 mL | 22.3809 mL |
|   | <b>5 mM</b>   | 0.4476 mL                | 2.2381 mL  | 4.4762 mL  |
|   | <b>10 mM</b>  | 0.2238 mL                | 1.1190 mL  | 2.2381 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: ≥ 3.25 mg/mL (7.27 mM); Clear solution<br><br>2. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 3.25 mg/mL (7.27 mM); Clear solution |                          |            |            |

### BIOLOGICAL ACTIVITY

|                    |   |
|--------------------|---|
| <b>Description</b> | BAY-252 is a potent branched-chain amino acid transaminases 1 (BCAT1) and BCAT2 inhibitor with IC <sub>50</sub> s of 2 μM and 2 μM, respectively. BAY-069 also can be used as a chemical probe. BAY-069 can be used for the research of cancer <sup>[1]</sup> . |
| <b>In Vitro</b>    | BAY-252 inhibits cell proliferation of MDA-MB-231 cells, with an IC <sub>50</sub> of 2 μM <sup>[1]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only.   |

### REFERENCES

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA