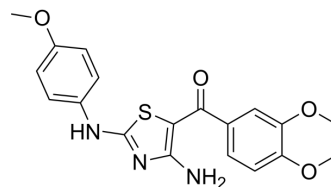


## SKI-349

|                           |                                                                                                                                                    |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cat. No.:</b>          | HY-162143                                                                                                                                          |
| <b>CAS No.:</b>           | 727686-80-8                                                                                                                                        |
| <b>Molecular Formula:</b> | C <sub>19</sub> H <sub>19</sub> N <sub>3</sub> O <sub>4</sub> S                                                                                    |
| <b>Molecular Weight:</b>  | 385.44                                                                                                                                             |
| <b>Target:</b>            | SphK; Akt; mTOR                                                                                                                                    |
| <b>Pathway:</b>           | Immunology/Inflammation; PI3K/Akt/mTOR                                                                                                             |
| <b>Storage:</b>           | 4°C, sealed storage, away from moisture and light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light) |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 125 mg/mL (324.30 mM; Need ultrasonic)

| Concentration | Mass      |            |            |
|---------------|-----------|------------|------------|
|               | 1 mg      | 5 mg       | 10 mg      |
| 1 mM          | 2.5944 mL | 12.9722 mL | 25.9444 mL |
| 5 mM          | 0.5189 mL | 2.5944 mL  | 5.1889 mL  |
| 10 mM         | 0.2594 mL | 1.2972 mL  | 2.5944 mL  |

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

### BIOLOGICAL ACTIVITY

#### Description

SKI-349 is a dual-targeted inhibitor of sphingosine kinase 1/2 (SPHK1/2) and microtubule assembly (MDA). SKI-349 has anticancer activity. SKI-349 can inhibit the vitality, invasion, and AKT/mTOR signaling pathway of liver cells<sup>[1][2]</sup>.

### REFERENCES

[1]. Hengst JA, et al. Development of SKI-349, a dual-targeted inhibitor of sphingosine kinase and microtubule polymerization. *Bioorg Med Chem Lett*. 2020 Oct 15;30(20):127453.

[2]. Chen L, et al. SKI-349, a Sphingosine Kinases 1/2 Inhibitor, Suppresses Cell Viability, Invasion, and AKT/mTOR Signaling Pathway, and Shows Synergistic Cytotoxic Effects with Sorafenib in Hepatocellular Carcinoma. *Tohoku J Exp Med*. 2023 Dec 21.

---

**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