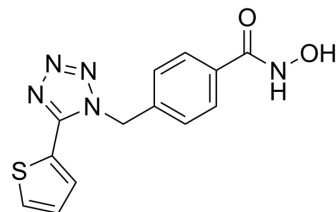


ITF 3756

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-156850 | | |
| CAS No.: | 2247608-27-9 | | |
| Molecular Formula: | C ₁₃ H ₁₁ N ₅ O ₂ S | | |
| Molecular Weight: | 301.32 | | |
| Target: | HDAC | | |
| Pathway: | Cell Cycle/DNA Damage; Epigenetics | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (414.84 mM; Need ultrasonic)

| Concentration | Solvent | Mass | 1 mg | 5 mg | 10 mg |
|---------------------------|---------|------|-----------|------------|------------|
| | | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 1 mM | | 3.3187 mL | 16.5937 mL | 33.1873 mL |
| | 5 mM | | 0.6637 mL | 3.3187 mL | 6.6375 mL |
| | 10 mM | | 0.3319 mL | 1.6594 mL | 3.3187 mL |

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (6.90 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (6.90 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (6.90 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

ITF 3756 is a potent and selective HDAC6 inhibitor. ITF 3756 reduces in vitro the expression of PD-L1 on human monocytes and on CD8 T cells, and shows anti-tumor activity^[1].

REFERENCES

[1]. Gianluca Fossati, et al. Abstract 1358: The selective HDAC6 inhibitor ITF3756 stimulates an antitumor immune response and leads to tumor regression in combination with anti CTLA-4 antibody in a colon carcinoma murine model. *Cancer Res* (2022) 82 (12_Supplement): 1358.

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

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