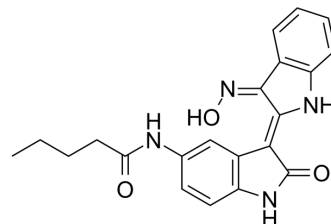


DRAK2-IN-1

| | | | |
|--------------------|---|-------|----------|
| Cat. No.: | HY-122629 | | |
| CAS No.: | 871837-60-4 | | |
| Molecular Formula: | C ₂₁ H ₂₀ N ₄ O ₃ | | |
| Molecular Weight: | 376.41 | | |
| Target: | DAPK | | |
| Pathway: | Apoptosis | | |
| 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 : 100 mg/mL (265.67 mM; Need ultrasonic) | | | | | |
| | | Solvent Concentration | Mass | 1 mg | 5 mg | 10 mg |
| | Preparing Stock Solutions | 1 mM | | 2.6567 mL | 13.2834 mL | 26.5668 mL |
| | | 5 mM | | 0.5313 mL | 2.6567 mL | 5.3134 mL |
| 10 mM | | | 0.2657 mL | 1.3283 mL | 2.6567 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: 5 mg/mL (13.28 mM); Suspended solution; Need ultrasonic | | | | | |
| | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (5.53 mM); Suspended solution; Need ultrasonic | | | | | |

BIOLOGICAL ACTIVITY

| | |
|---------------------------|--|
| Description | DRAK2-IN-1, compound 16, is a potent, selective and ATP-competitive DRAK2 inhibitor with IC ₅₀ and K _i values of 3 nM and 0.26 nM, respectively. DRAK2-IN-1 also has inhibitory effect on DRAK1 (IC ₅₀ =51 nM) ^[1] . |
| IC ₅₀ & Target | IC ₅₀ : 3 nM (DRAK2); 51 nM (DRAK1); 1.8 μM (DRPK2); 2.3 μM (DRAK2); 1.8 μM (DRPK3) ^[1] |

REFERENCES

[1]. Jung ME, et al. Discovery of indirubin derivatives as new class of DRAK2 inhibitors from high throughput screening. *Bioorg Med Chem Lett*. 2016 Jun 1;26(11):2719-23

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