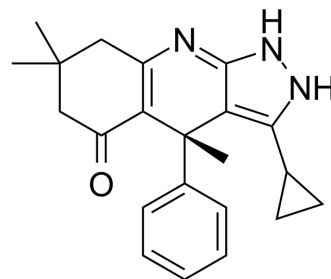


BRD0209

| | | | |
|--------------------|--|-------|----------|
| Cat. No.: | HY-117822 | | |
| CAS No.: | 1597439-87-6 | | |
| Molecular Formula: | C ₂₂ H ₂₅ N ₃ O | | |
| Molecular Weight: | 347.45 | | |
| Target: | GSK-3 | | |
| Pathway: | PI3K/Akt/mTOR; Stem Cell/Wnt | | |
| 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 : 62.5 mg/mL (179.88 mM; Need ultrasonic)

| Concentration | Solvent | Mass | 1 mg | 5 mg | 10 mg |
|---------------------------|---------|------|-----------|------------|------------|
| | | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 1 mM | | 2.8781 mL | 14.3906 mL | 28.7811 mL |
| | 5 mM | | 0.5756 mL | 2.8781 mL | 5.7562 mL |
| | 10 mM | | 0.2878 mL | 1.4391 mL | 2.8781 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 (5.99 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (5.99 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (5.99 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

BRD0209 is a potent, selective and dual inhibitor of GSK3α/β inhibitor (GSK3α IC₅₀ = 19 nM; GSK3β IC₅₀ = 5 nM). BRD0209 is also a reversible ATP-competitive inhibitor with fast-off kinetics (K_i = 4.2 nM, respectively). BRD0209 is a tricyclic pyrazolotetrahydroquinolinone compound. BRD0209 has the potential for the research of mood disorder diseases^[1].

REFERENCES

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

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