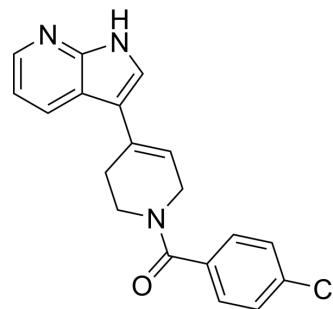


ERK5-IN-5

| | | | |
|--------------------|--|-------|----------|
| Cat. No.: | HY-156450 | | |
| CAS No.: | 2318792-30-0 | | |
| Molecular Formula: | C ₁₉ H ₁₆ ClN ₃ O | | |
| Molecular Weight: | 337.8 | | |
| Target: | ERK | | |
| Pathway: | MAPK/ERK Pathway; 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 : 100 mg/mL (296.03 mM; Need ultrasonic)

| Concentration | Solvent | Mass | 1 mg | | | 5 mg | | | 10 mg | | |
|---------------|---------|------|---------------|--|--|---------------|--|--|---------------|--|--|
| | | | Concentration | | | Concentration | | | Concentration | | |
| 1 mM | | | 2.9603 mL | | | 14.8017 mL | | | 29.6033 mL | | |
| 5 mM | | | 0.5921 mL | | | 2.9603 mL | | | 5.9207 mL | | |
| 10 mM | | | 0.2960 mL | | | 1.4802 mL | | | 2.9603 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: 2.5 mg/mL (7.40 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (7.40 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 2.5 mg/mL (7.40 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

ERK5-IN-5 (compound 4a) is an ERK5 kinase inhibitor with anticancer activity. ERK5-IN-5 exhibits good anti-proliferative activity with the IC₅₀ value of 6.23 μg/mL for A549 cells^[1].

IC₅₀ & Target

ERK5

REFERENCES

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

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