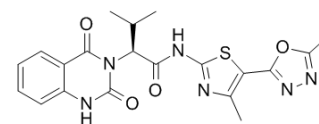


Kif15-IN-2

| | | | |
|--------------------|---|-------|----------|
| Cat. No.: | HY-15949 | | |
| CAS No.: | 672926-33-9 | | |
| Molecular Formula: | C ₂₀ H ₂₀ N ₆ O ₄ S | | |
| Molecular Weight: | 440.48 | | |
| Target: | Kinesin | | |
| Pathway: | Cell Cycle/DNA Damage; Cytoskeleton | | |
| 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 : 20 mg/mL (45.41 mM; Need ultrasonic) | | | |
| | | Solvent Concentration | Mass | |
| | | | 1 mg | 5 mg |
| | | | 10 mg | |
| Preparing Stock Solutions | 1 mM | 2.2703 mL | 11.3513 mL | 22.7025 mL |
| | 5 mM | 0.4541 mL | 2.2703 mL | 4.5405 mL |
| | 10 mM | 0.2270 mL | 1.1351 mL | 2.2703 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: ≥ 2 mg/mL (4.54 mM); Clear solution | | | |
| | 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2 mg/mL (4.54 mM); Clear solution | | | |

BIOLOGICAL ACTIVITY

| | |
|---------------------------|---|
| Description | Kif15-IN-2 is an inhibitor of the mitotic kinesin Kif15, and is used for the research of cellular proliferative diseases. |
| IC ₅₀ & Target | KIF15 |
| In Vitro | Kif15-IN-2 (Compound 14) is an inhibitor of the mitotic kinesin Hs Kif15, with the potential activities against cellular proliferative diseases such as cancer, hyperplasias, restenosis, cardiac hypertrophy, immune disorders and inflammation ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[1]. Quinazolinone derivatives useful for treating cellular proliferative disorders and disorders associated with Kif15 kinesin activity are described. US 20040053948 A1.

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

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