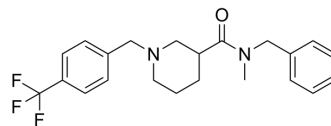


T.cruzi-IN-1

| | |
|--------------------|--|
| Cat. No.: | HY-103033 |
| CAS No.: | 1350920-22-7 |
| Molecular Formula: | C ₂₂ H ₂₅ F ₃ N ₂ O |
| Molecular Weight: | 390.44 |
| Target: | Parasite |
| Pathway: | Anti-infection |
| Storage: | 4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



SOLVENT & SOLUBILITY

| | | | | | |
|---|---|--------------------------|-----------|------------|------------|
| In Vitro | DMSO : 50 mg/mL (128.06 mM; ultrasonic and warming and heat to 60°C) | | | | |
| | | Solvent Concentration | Mass | | |
| | Preparing Stock Solutions | | 1 mg | 5 mg | 10 mg |
| | | 1 mM | 2.5612 mL | 12.8061 mL | 25.6121 mL |
| | | 5 mM | 0.5122 mL | 2.5612 mL | 5.1224 mL |
| | 10 mM | 0.2561 mL | 1.2806 mL | 2.5612 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: ≥ 0.71 mg/mL (1.82 mM); Clear solution | | | | |
| | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.71 mg/mL (1.82 mM); Clear solution | | | | |
| | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.71 mg/mL (1.82 mM); Clear solution | | | | |

BIOLOGICAL ACTIVITY

| | |
|---------------------------|--|
| Description | T.cruzi-IN-1 is a potent <i>Trypanosoma cruzi</i> inhibitor with an IC ₅₀ of 8 nM. T.cruzi-IN-1, a 4-trifluoromethyl substituted analog, has the potential for both the acute and chronic stages of Chagas disease ^[1] . |
| IC ₅₀ & Target | Trypanosoma 61.6 μM (IC ₅₀) |
| In Vitro | T.cruzi-IN-1 inhibits <i>Trypanosoma cruzi</i> replication and has an IC ₅₀ of 61.6 μM for toxicity ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[1]. Germain AR, et al. Identification of small-molecule inhibitors of Trypanosoma cruzi replication. Bioorg Med Chem Lett. 2011 Dec 1;21(23):7197-200.

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

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