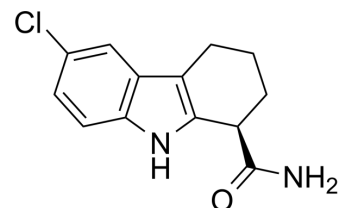


## (R)-Selisistat

|                    |  |
|--------------------|--|
| Cat. No.:          | HY-15452B  |
| CAS No.:           | 848193-69-1  |
| Molecular Formula: | C <sub>13</sub> H <sub>13</sub> ClN <sub>2</sub> O   |
| Molecular Weight:  | 248.71   |
| Target:            | Sirtuin  |
| Pathway:           | Cell Cycle/DNA Damage; Epigenetics   |
| Storage:           | Powder    -20°C    3 years<br>4°C    2 years<br>In solvent   -80°C    2 years<br>-20°C    1 year |



### SOLVENT & SOLUBILITY

|   |   |   |      |           |            |            |
|---|---|---|------|-----------|------------|------------|
| In Vitro  | DMSO : 100 mg/mL (402.07 mM; Need ultrasonic)   |   |      |           |            |            |
|   | Preparing Stock Solutions   | <div><div>Solvent</div><div>Concentration</div></div> | Mass | 1 mg      | 5 mg       | 10 mg      |
|   |   | 1 mM  |      | 4.0207 mL | 20.1037 mL | 40.2075 mL |
|   |   | 5 mM  |      | 0.8041 mL | 4.0207 mL  | 8.0415 mL  |
|   |   | 10 mM   |      | 0.4021 mL | 2.0104 mL  | 4.0207 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<br>Solubility: ≥ 2.5 mg/mL (10.05 mM); Clear solution |   |      |           |            |            |
|   | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)<br>Solubility: ≥ 2.5 mg/mL (10.05 mM); Clear solution            |   |      |           |            |            |
|   | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 2.5 mg/mL (10.05 mM); Clear solution                            |   |      |           |            |            |

### BIOLOGICAL ACTIVITY

|                           |  |
|---------------------------|--|
| Description               | (R)-Selisistat ((R)-EX-527) is a R-enantiomer of Selisistat. Selisistat (EX-527) is a potent and selective SIRT1 inhibitor with IC <sub>50</sub> of 98 nM. |
| IC <sub>50</sub> & Target | IC <sub>50</sub> : > 100 μM (SIRT1) <sup>[1]</sup>   |

### REFERENCES

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

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