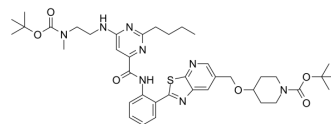


SRT3657

| | |
|--------------------|---|
| Cat. No.: | HY-136094 |
| CAS No.: | 1383551-17-4 |
| Molecular Formula: | C ₄₀ H ₅₄ N ₈ O ₆ S |
| Molecular Weight: | 774.97 |
| Target: | Sirtuin |
| Pathway: | Cell Cycle/DNA Damage; Epigenetics |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | | | | | | | | | |
|---------------------------|--|---------------|--|---------|----------|-----------------|---------------------------------|---------|--|
| Description | SRT3657 is a brain-permeable activator of SIRT1, with neuroprotective effect ^[1] . | | | | | | | | |
| IC ₅₀ & Target | SIRT1 ^[1] | | | | | | | | |
| In Vivo | <p>SRT3657 (30 mg/kg; i.g.; daily; for 6 weeks) activates SIRT1 in CK-p25 mice^[1].</p> <p>SRT3657 treatment prevents synaptic and neuronal loss and effectively rescues against neurodegeneration-driven memory impairments^[1].</p> <p>SRT3657 recapitulates the neuroprotective potential of caloric restriction (CR)^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Adult double-transgenic CK-p25 mice (3-month-old)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>30 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Oral gavage, daily, for 6 weeks</td> </tr> <tr> <td>Result:</td> <td>Significantly upregulated the activity of SIRT1 in hippocampal extracts of CK-p25 animals.</td> </tr> </table> | Animal Model: | Adult double-transgenic CK-p25 mice (3-month-old) ^[1] | Dosage: | 30 mg/kg | Administration: | Oral gavage, daily, for 6 weeks | Result: | Significantly upregulated the activity of SIRT1 in hippocampal extracts of CK-p25 animals. |
| Animal Model: | Adult double-transgenic CK-p25 mice (3-month-old) ^[1] | | | | | | | | |
| Dosage: | 30 mg/kg | | | | | | | | |
| Administration: | Oral gavage, daily, for 6 weeks | | | | | | | | |
| Result: | Significantly upregulated the activity of SIRT1 in hippocampal extracts of CK-p25 animals. | | | | | | | | |

REFERENCES

[1]. Gräff J, et al. A dietary regimen of caloric restriction or pharmacological activation of SIRT1 to delay the onset of neurodegeneration. J Neurosci. 2013 May 22;33(21):8951-60.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA