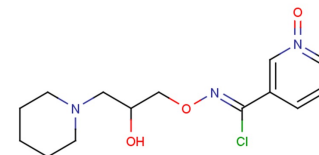


Anti-neurodegeneration agent 1

Chemical Properties

| | |
|-------------------|--|
| CAS No.: | 289893-23-8 |
| Formula: | C ₁₄ H ₂₀ ClN ₃ O ₃ |
| Molecular Weight: | 313.78 |
| Appearance: | N/A |
| Storage: | 0-4°C for short term (days to weeks), or -20°C for long term (months). |



Biological Description

| | |
|----------------------------|--|
| Description | Anti-neurodegeneration agent 1 a neurodegeneration-targeting agent extracted from patent WO2008039514A1 (Compound I). |
| Targets(IC ₅₀) | Others: None |
| In vivo | In Anti-neurodegeneration agent 1-treated mSOD1(G93A) mice, Western blot analysis reveals an observable 'band shift' of HSF-I, indicative of stress-induced activation of HSF-I by hyper-phosphorylation. At 120 days of age, expression of Hsp70 and Hsp90 is increased in the lumbar spinal cords of both untreated and Anti-neurodegeneration agent 1- treated SOD1(G93A) mice, although there is a clear increase in the intensity of Hsp70 and Hsp90 immunoreactivity in motor neurons of Anti-neurodegeneration agent 1-treated mSOD1(G93A) mice. Anti-neurodegeneration agent 1- treated mice live an average of 153 days. This represents a significant increase in lifespan of over 22%. The effect of beginning Anti-neurodegeneration agent 1 treatment at the time of disease onset is also tested by starting treatment at 70 days of age when the first signs of locomotor defects are observed. Anti-neurodegeneration agent 1 treatment from 70 days of age extended the mean lifespan of mSOD1(G93A) mice by 23 days, from 125 days (±1.8 SEM, n=18) in the untreated group to 148 days in the treated group. This represents an increase in lifespan of 18%. |

Solubility Information

| | |
|------------|---|
| Solubility | < 1 mg/ml refers to the product slightly soluble or insoluble |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|-----------|-----------|
| 1 mM | 3.187 mL | 15.935 mL | 31.869 mL |
| 5 mM | 0.637 mL | 3.187 mL | 6.374 mL |
| 10 mM | 0.319 mL | 1.593 mL | 3.187 mL |
| 50 mM | 0.064 mL | 0.319 mL | 0.637 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. BARBER, Jack R. PHARMACEUTICAL COMPOSITIONS AND METHODS FOR TREATING DISEASES ASSOCIATED WITH NEURODEGENERATION. WO2008039514A1.

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