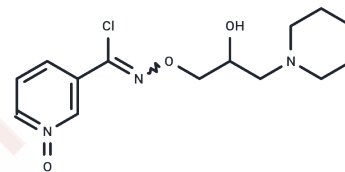


Anti-neurodegeneration agent 1

Chemical Properties

CAS No. :	289893-23-8
Formula:	C ₁₄ H ₂₀ ClN ₃ O ₃
Molecular Weight:	313.78
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Anti-neurodegeneration agent 1, a neurodegeneration-targeting agent.
Targets(IC50)	Others
In vivo	In mSOD1(G93A) mice treated with Anti-neurodegeneration agent 1, Western blot analysis showed a stress-induced 'band shift' in HSF-1 due to hyper-phosphorylation, indicating activation. At 120 days, these mice exhibited elevated levels of Hsp70 and Hsp90 in the lumbar spinal cords, with notably stronger immunoreactivity in motor neurons for the treated group compared to untreated. The treatment extended the mice's average lifespan to 153 days, achieving more than a 22% increase in longevity. Additionally, initiating Anti-neurodegeneration agent 1 treatment at 70 days of age, coinciding with the onset of locomotor defects, further increased the mice's lifespan by 23 days, or 18%, from an untreated average of 125 days to 148 days for the treated.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1869 mL	15.9347 mL	31.8695 mL
5 mM	0.6374 mL	3.1869 mL	6.3739 mL
10 mM	0.3187 mL	1.5935 mL	3.1869 mL
50 mM	0.0637 mL	0.3187 mL	0.6374 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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