
Product Data Sheet

Product Name: Anti-neurodegeneration agent 1

Cat. No.: GC31244

Chemical Properties

Cas. No. 289893-23-8

SMILES Cl/C(C(C=CC=1)=CN1=O)=N\OCC(O)CN2CCCCC2Formula $C_{14}H_{20}ClN_3O_3$ M.Wt 313.78

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Protocol****Animal experiment:**

Mice[1] Transgenic mice over-expressing human mutant SOD1 are used. Anti-neurodegeneration agent 1 is tested for the ability to prevent the progressive loss of motor neurons and muscle function known to occur in mSOD1(G93A) mice. mSOD1(G93A) mice of both sexes are treated daily with Anti-neurodegeneration agent 1 (10 mg/kg, ip) from 35 or 70 days of age[1].

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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References:

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

Background

Anti-neurodegeneration agent 1 a neurodegeneration-targeting compound extracted from patent WO2008039514A1, Compound I.

In Anti-neurodegeneration agent 1 (Compound I)-treated mSOD1(G93A) mice, Western blot analysis reveals an observable 'band shift' of HSF-I, indicative of a stress-induced activation of HSF-I by hyper-phosphorylation. Immunostaining reveals that, 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 I- treated mice live an average of 153 days (± 2.6 SEM, n=7). This represents a significant increase in lifespan of over 22% (p=

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

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