

Catalog # 10-3230 TRO19622

CAS# 22033-87-0 Cholest-4-en-3-one oxime Olesoxime Lot # S104011

Neuroregenerative and neuroprotective agent acting at components of the mitochondrial permeability transition pore (MPTP).¹ Rescues motor neurons from axotomy-induced cell death and promotes nerve regeneration following sciatic nerve crush in mice. Reduces ROS and NLRP3 inflammasome activation in a mouse model of intracerebral hemorrhage.² Inhibits MPTP opening and protects neurons from apoptosis.³ Induces oligodendrocyte maturation in culture and promotes myelin regeneration *in vivo* in a rodent model.⁴

- 1) Bordet et al. (2007), Identification and characterization of cholest-4-en-3-one, oxime (TRO19622), a novel drug candidate for amyotrophic lateral sclerosis; J. Pharmacol. Exp. Ther., **322** 709
- 2) Ma et al. (2014), NLRP3 inflammasome contributes to inflammation after intracerebral hemorrhage; Ann. Neurol., **75** 209
- 3) Martin et al. (2011), The mitochondrial permeability transition pore regulates nitric oxide-mediated apoptosis of neurons induced by target deprivation; J. Neurosci., **31** 359
- 4) Magalon et al. (2016), Olesoxime favors oligodendrocyte differentiation through a functional interplay between mitochondria and microtubules; Neuropharmacology, **111** 293

PHYSICAL DATA

NMR: (Conforms)

Solubility: DMSO (up to 20 mg/ml) or Ethanol (up to 25 mg/ml)

Physical Description: White solid

Storage and Stability: Store as supplied at -20°C for up to 1 years from the date of purchase. Solutions in

DMSO or ethanol may be stored at -20°C for up to 3 months.

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