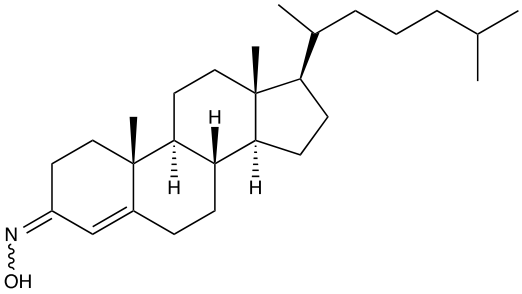
Catalog # 10-3230
TRO19622
CAS# 22033-87-0
Cholest-4-en-3-one oxime
Olesoxime
Lot # S104011



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

Molecular Weight:	399.65
Molecular Formula:	$C_{27}H_{45}NO$
Purity:	98% by TLC 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.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462
www.focusbiomolecules.com