Product Name: TRO 19622
CAS No.: 22033-87-0
Cat. No.: HY-14796
MWt: 399.65
Formula: C27H45NO
Purity: >98%

Solubility: DMSO

Mechanisms: Pathways: Others; Target: Others

Biological Activity:
TRO19622, a small cholesterol-like molecule, is a neuroregenerative and neuroprotective compound.
IC50 Value: 3.2 ± 0.2 μM(EC50) [1]
Target: Others
in vitro: TRO19622 maintained survival of 74 ± 10% (n = 8) of the neurons supported by a cocktail of
trophic factors (1 ng/ml brain-derived neurotrophic factor, 1 ng/ml glia-derived neurotrophic factor,
and 10 ng/ml ciliary neurotrophic factor), defined as 100%, increased overall neurite outgrowth per
cell by 54% [1]. Olesoxime prevented neurite shrinkage induced by MTAs in differentiated PC-12
and SK-N-SH neuroblastoma cell lines by up to 90%. Olesoxime also counteracted MTA inhibition of
microtubule-dependent mitochondria trafficking. [2].
in vivo: Treatment with TRO19622(3 mg/kg/day) resulted in a significant increase in life span.
TRO19622-treated SOD1G93A mice lived 10% longer (138 ± 4 days, n = 7 and 135 ± 3 days, ...

References:
[1]. Bordet, T., et al., Identification and characterization of cholest-4-en-3-one, oxime (TRO19622), a
[3]. Bordet, T., et al., Specific antinociceptive activity of cholest-4-en-3-one, oxime (TRO19622) in
experimental models of painful diabetic and chemotherapy-induced neuropathy. J Pharmacol Exp
[4]. Xiao, W.H., et al., Olesoxime (cholest-4-en-3-one, oxime): analgesic and neuroprotective effects
in a rat model of painful peripheral neuropathy produced by the chemotherapeutic agent, paclitaxel.

Caution: Not fully tested. For research purposes only

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