

# Certificate of Analysis

**Product Name:** TRO 19622

**Catalog No.:** 2906

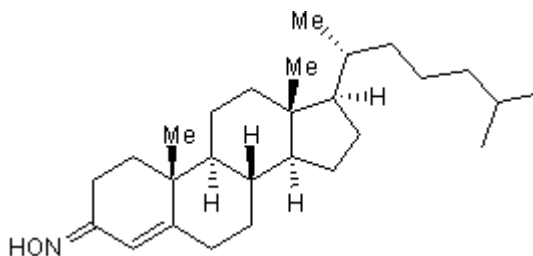
**Batch No.:** 2

CAS Number: 22033-87-0

IUPAC Name: Cholest-4-en-3-one oxime

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  $C_{27}H_{45}NO \cdot \frac{1}{4}H_2O$   
**Batch Molecular Weight:** 404.15  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 50 mM  
ethanol to 20 mM  
**Storage:** Desiccate at +4°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:**  $R_f = 0.65$  (Ethyl acetate:Petroleum ether [4:1])  
**HPLC:** Shows 98% purity  
 **$^1H$  NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	80.24	11.35	3.47
Found	80.58	11.31	3.51

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Neuroprotective and neuroregenerative compound. Rescues motor neurons from axotomy-induced cell death and promotes nerve regeneration following sciatic nerve crush in vivo. Binds directly to two components of the mitochondrial permeability pore, the voltage-dependent anion channel (VDAC) and translocator protein; thought to inhibit MPTP opening.

**Physical and Chemical Properties:**

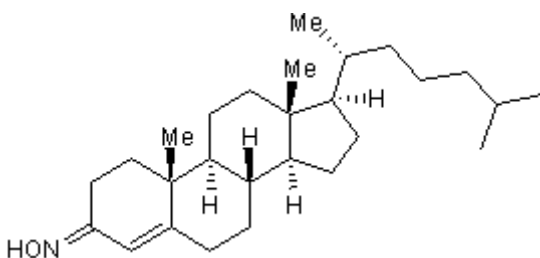
Batch Molecular Formula: C<sub>27</sub>H<sub>45</sub>NO.¼H<sub>2</sub>O

Batch Molecular Weight: 404.15

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**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. PMID: 17496168.

**Storage:** Desiccate at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

DMSO to 50 mM

ethanol to 20 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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