

# Certificate of Analysis

**Product Name:** LY 231617

**Catalog No.:** 1286

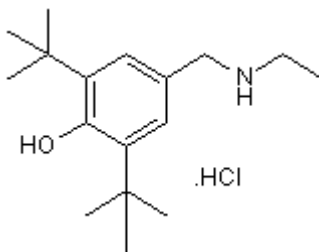
**Batch No.:** 1

CAS Number: 141545-89-3

IUPAC Name: 2,6-bis(1,1-Dimethylethyl)-4-[(ethylamino)methyl]phenol hydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>29</sub>NO.HCl  
**Batch Molecular Weight:** 299.88  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
ethanol to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.23 (Dichloromethane:Methanol:Ammonia soln. [95:5:1])  
**HPLC:** Shows 99.1% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	68.09	10.08	4.67
Found	68.1	10.09	4.68

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

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**Description:**

Antioxidant; protects against ischemia-induced neuronal damage in rat models of global and focal cerebral ischemia. Neuroprotective in vitro and in vivo.

**Physical and Chemical Properties:**

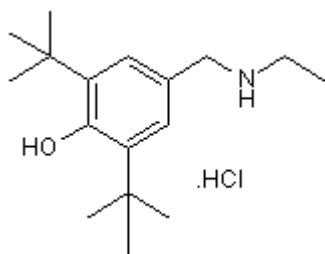
Batch Molecular Formula: C<sub>17</sub>H<sub>29</sub>NO.HCl

Batch Molecular Weight: 299.88

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol to 100 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.

**References:**

**Clemens et al** (1993) The antioxidant LY 231617 reduces global ischemic neuronal injury in rats. *Stroke* **24** 716. PMID: 8488528.

**O'Neill et al** (1997) Neuroprotective effects of the antioxidant LY 231617 and NO synthase inhibitors in global ischaemia. *Brain Res.* **760** 170. PMID: 9237532.

**Fuson et al** (1999) Characterization of LY 231617 protection against hydrogen peroxide toxicity. *J.Neurochem.* **72** 1154. PMID: 10037488.

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