

**Product Name:** L-689,560

**Catalog No.:** 0742

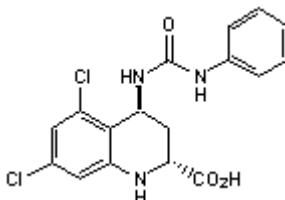
**Batch No.:** 5

CAS Number: 139051-78-8

IUPAC Name: *trans*-2-Carboxy-5,7-dichloro-4-phenylaminocarbonylamino-1,2,3,4-tetrahydroquinoline

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>15</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>3</sub>  
**Batch Molecular Weight:** 380.23  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 25 mM  
ethanol to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.43 (Dichloromethane:Methanol [9:1])  
**Melting Point:** Between 172 - 173°C  
**HPLC:** Shows >99.5% purity  
**<sup>1</sup>H NMR:** Consistent with structure

	Carbon Hydrogen Nitrogen		
	Theoretical	Found	
	53.7	53.64	3.98
			3.95
			11.05
			11.03

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

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**Description:**

Very potent antagonist at the glycine-NMDA site. Also available as part of the NMDA Receptor - Glycine Site Tocriset™.

**Physical and Chemical Properties:**

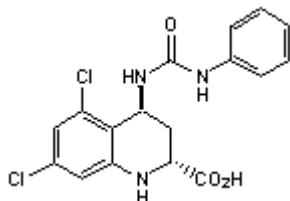
Batch Molecular Formula: C<sub>17</sub>H<sub>15</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>3</sub>

Batch Molecular Weight: 380.23

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 25 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:**

**Leeson et al** (1991) *trans*-2-Carboxy-4-substituted tetrahydroquinolines. Potent glycine-site NMDA receptor antagonists. *Med.Chem.Res.* **1** 64.

**Leeson et al** (1992) 4-Amido-2-carboxytetrahydroquinolines. Structure-activity relationship for antagonism at the glycine site of the NMDA receptor. *J.Med.Chem.* **35** 1954. PMID: 1534584.

**Stone** (2000) Development and therapeutic potential of kynurenic acid and kynurenine derivatives for neuroprotection. *TiPS* **21** 149. PMID: 10740291.

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