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Print Date: Jan 15th 2016

Certificate of Analysis

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Product Name: **Gavestinel** **Catalog No.: 2348** **Batch No.: 1**

CAS Number: 153436-38-5

IUPAC Name: 4,6-Dichloro-3-[(1*E*)-3-oxo-3-(phenylamino)-1-propenyl]-1*H*-indole-2-carboxylic acid sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{18}H_{11}Cl_2N_2O_3Na.1¾H_2O$

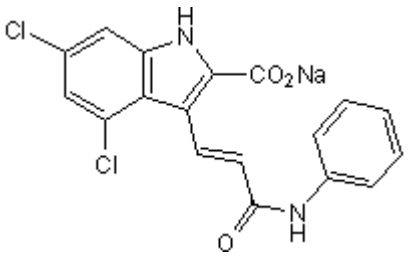
Batch Molecular Weight: 428.71

Physical Appearance: Yellow solid

Solubility: DMSO to 40 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Dichloromethane:Methanol [9:1])

Melting Point: Greater than 320°C

HPLC: Shows >99% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	50.43	3.41	6.53
Found	50.42	3.23	6.45

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

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Description:

Highly potent and selective non-competitive antagonist acting at the strychnine-insensitive glycine binding site of the NMDA receptor-channel complex (K_d = 0.8 nM). Displays > 1000-fold selectivity over NMDA, AMPA and kainate binding sites. Orally bioavailable and active in vivo.

Physical and Chemical Properties:

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Minimum Purity: >98%

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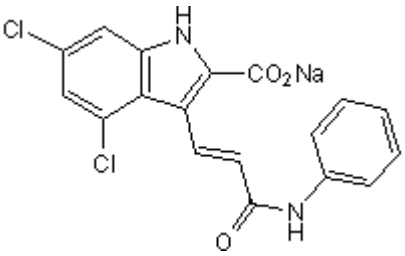

Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 40 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:

Di Fabio *et al* (1997) Substituted indole-2-carboxylates as *in vivo* potent antagonists acting at the strychnine-insensitive glycine binding site. J.Med.Chem. ***40*** 841. PMID: 9083472.

Mugnaini *et al* (2000) Receptor binding characteristics of the novel NMDA receptor glycine site antagonist [^{3}H]GV150526A in rat cerebral cortical membranes. Eur.J.Pharmacol. ***391*** 233. PMID: 10729363.

Kajbaf *et al* (2003) Pharmacokinetics, metabolism and excretion of the glycine antagonist GV150526A in rat and dog. Xenobiotica. ***33*** 415. PMID: 12745876.

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