

Certificate of Analysis

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Product Name: Org 20599

Catalog No.: 2738

Batch No.: 1

CAS Number: 156685-94-8

IUPAC Name: (2 β ,3 α ,5 α)-21-Chloro-3-hydroxy-2-(4-morpholinyl)pregnan-20-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₄₀ClNO₃
Batch Molecular Weight: 438.04
Physical Appearance: White solid
Solubility: 1eq. HCl to 100 mM
 DMSO to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

HPLC: Shows >97.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +165.5 (Concentration = 0.4, Solvent = Chloroform)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.55	9.2	3.2
Found	68.46	9.21	3.05

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

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Positive allosteric modulator and at higher concentrations direct agonist of GABA_A receptors (EC₅₀ = 1.1 μ M). Also displays positive modulation of glycine receptors (EC₅₀ = 22.9 μ M). Anesthetic steroid; induces hypnosis and loss of righting reflexes in mice.

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Storage: Store at RT**Solubility & Usage Info:**

1eq. HCl to 100 mM

DMSO 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:

Hill-Venning *et al* (1996) The anaesthetic action and modulation of GABA_A receptor activity by the novel water-soluble aminosteroid Org 20599. *Neuropharmacology* **35** 1209. PMID: 9014136.

Visser *et al* (2002) Neuroactive steroids differ in potency but not in intrinsic efficacy at the GABA_A receptor in vivo. *J.Pharmacol.Exp.Ther.* **303** 616. PMID: 12388643.

Weir *et al* (2004) The interaction of anaesthetic steroids with recombinant glycine and GABA_A receptors. *Br.J.Anaesth.* **92** 704. PMID: 15033889.

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