

Certificate of Analysis

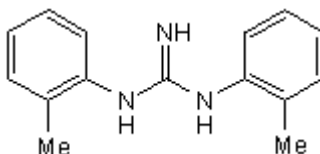
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Product Name: DTG
CAS Number: 97-39-2
IUPAC Name: 1,3-Di-(2-tolyl)guanidine

Catalog No.: 0841
Batch No.: 3
EC Number: 202-577-6

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₇N₃
Batch Molecular Weight: 239.32
Physical Appearance: White solid
Solubility: ethanol to 25 mM
DMSO to 25 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.71 (Dichloromethane:Methanol [9:1])
Melting Point: At 185°C
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	75.28	7.16	17.56
Found	75.1	7.19	17.6

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

Product Information

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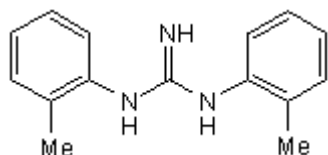
Description:

Displays high and roughly equal affinity for both σ_1 and σ_2 receptors.

Physical and Chemical Properties:

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Storage: Store at RT

Solubility & Usage Info:

ethanol to 25 mM
DMSO to 25 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:

Quirion et al (1992) A proposal for the classification of sigma binding sites. *TIPS* **13** 85. PMID: 1315463.

He et al (1993) Synthesis and binding characteristics of potential SPECT imaging agents for σ_1 and σ_2 binding sites. *J.Med.Chem.* **36** 566. PMID: 8496936.

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