

Certificate of Analysis

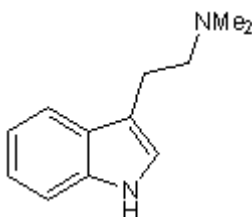
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Product Name: DMT
CAS Number: 61-50-7
IUPAC Name: *N,N*-Dimethyl-1*H*-indole-3-ethanamine

Catalog No.: 3428 **Batch No.:** 1
EC Number: 200-508-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₆N₂
Batch Molecular Weight: 188.27
Physical Appearance: White solid
Solubility: ethanol to 5 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99% purity

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

Product Name: DMT

CAS Number: 61-50-7

IUPAC Name: *N,N*-Dimethyl-1*H*-indole-3-ethanamine

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Description:

Endogenous σ_1 receptor ligand and psychoactive plant compound ($K_i = 14.8 \mu\text{M}$). Binding to σ_1 inhibits voltage-gated Na^+ channels and is responsible for the behavioral effects of DMT. Also a 5-HT_{2A} receptor agonist and inhibitor of 5-HT uptake at plasma membrane serotonin transporters (SERT) ($K_i = 4.0 \mu\text{M}$).

Physical and Chemical Properties:

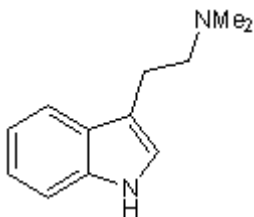
Batch Molecular Formula: C₁₂H₁₆N₂

Batch Molecular Weight: 188.27

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

ethanol to 5 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.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

INFORMATION FOR CUSTOMERS IN THE USA ONLY

This product is a Schedule I DEA controlled substance and customers in the USA are required to hold a controlled substance registration in order to purchase and possess this material (in accordance with Title 21 code of federal regulations part 1300 to end).

INFORMATION FOR CUSTOMERS IN CANADA ONLY

This product is a Schedule III CDSA controlled substance and customers in Canada require an import permit to purchase this material.

References:

Fontanilla et al (2009) The hallucinogen *N,N*-dimethyltryptamine (DMT) is an endogenous sigma-1 receptor regulator. *Science* **323** 934. PMID: 19213917.

Cozzi et al (2009) Dimethyltryptamine and other hallucinogenic tryptamines exhibit substrate behavior at the serotonin uptake transporters and the vesicle monoamine transporter. *J. Neural Transm.* **116** 1591. PMID: 19756361.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956