

Certificate of Analysis

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Product Name: Metaphit

Catalog No.: 0568

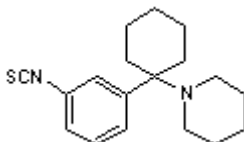
Batch No.: 1

CAS Number: 96316-00-6

IUPAC Name: 1-(1-(3-Isothiocyanato)phenyl)cyclohexylpiperidine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₄N₂S
Batch Molecular Weight: 300.46
Physical Appearance: Cream solid
Solubility: ethanol to 20 mM with gentle warming
DMSO to 20 mM with gentle warming
Storage: Desiccate at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.96	8.05	9.32
Found	71.74	8.1	9.3

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

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Product Information

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Catalog No.: 0568

Batch No.: 1

CAS Number: 96316-00-6

IUPAC Name: 1-(1-(3-Isothiocyanato)phenyl)cyclohexylpiperidine

Description:

Acylator of PCP and σ -receptors.

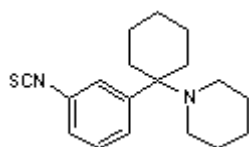
Physical and Chemical Properties:

Batch Molecular Formula: C₁₈H₂₄N₂S

Batch Molecular Weight: 300.46

Physical Appearance: Cream solid

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

ethanol to 20 mM with gentle warming

DMSO to 20 mM with gentle warming

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:

Reith *et al* (1991) Effect of metaphit on dopaminergic neurotransmission in rat striatal slices: involvement of the dopamine transporter and voltage-dependent sodium channel. *J.Pharmacol.Exp.Ther.* **259** 1188. PMID: 1662274.

Debler *et al* (1989) Metaphit, an isothiocyanate analog of PCP, induces audiogenic seizures in mice. *Eur.J.Pharmacol.* **165** 155. PMID: 2548879.

Contreras *et al* (1986) Metaphit, an acylating ligand for phencyclidine receptors: characterization of *in vivo* actions in the rat. *J.Pharmacol.Exp.Ther.* **238** 1101. PMID: 3018219.

Rafferty *et al* (1985) A specific acylating agent for the [³H]-phencyclidine receptors in rat brain. *FEBS Lett.* **181** 318. PMID: 2982662.

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