

Certificate of Analysis

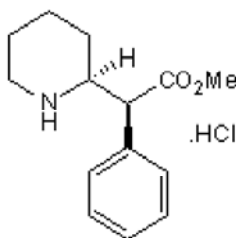
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Product Name: Threo-methylphenidate hydrochloride
CAS Number: 298-59-9
IUPAC Name: Threo-methyl α -Phenyl-2-piperidineacetate hydrochloride

Catalog No.: 1812 **Batch No.:** 2
EC Number: 206-065-3

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₉NO₂.HCl
Batch Molecular Weight: 269.77
Physical Appearance: White solid
Solubility: water to 50 mM
 ethanol to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

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

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

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Catalog No.: 1812

Batch No.: 2

CAS Number: 298-59-9

EC Number: 206-065-3

IUPAC Name: Threo-methyl α -Phenyl-2-piperidineacetate hydrochloride

Description:

Threo-methylphenidate hydrochloride is a psychomotor stimulant. Inhibitor of dopamine and noradrenalin transporters that increases the extracellular concentration of dopamine and noradrenalin. Increases locomotor activity in vivo.

Physical and Chemical Properties:

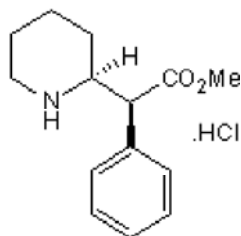
Batch Molecular Formula: C₁₄H₁₉NO₂.HCl

Batch Molecular Weight: 269.77

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 50 mM

ethanol 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.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 2 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.

References:

Askenasy et al (2007) Methylphenidate (Ritalin): behavioral studies in the rat. *Int.J.Neurosci.* **117** 757. PMID: 17454243.

Leonard et al (2004) Methylphenidate: a review of its neuropharmacological, neuropsychological and adverse clinical effects. *Human Psychopharm.* **19** 151.

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