Certificate of Analysis

Print Date: Jan 24th 2023

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Product Name: Metyrapone

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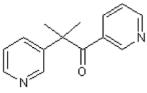
Storage:

CAS Number: 54-36-4 IUPAC Name: 2-Methyl-1,2-di-3-pyridinyl-1-propanone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: C₁₄H₁₄N₂O. 226.27 Pale orange solid water to 10 mM DMSO to 100 mM Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 99.6% purity Consistent with structure Carbon Hydrogen Nitrogen Theoretical 74.31 6.24 12.38

6.2

12.29

73.8

Found

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

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Batch No.: 9

Catalog No.: 3292 EC Number: 200-206-2

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Product Name: Metyrapone

CAS Number: 54-36-4 **IUPAC Name:** 2-Methyl-1,2-di-3-pyridinyl-1-propanone

Description:

Metyrapone cytochrome P450 is а inhibitor. Blocks glucocorticoid synthesis via inhibition of steroid 11-β hydroxylase (CYP11B1) activity (IC₅₀ = 7.83 µM). Also inhibits CYP3A4 and cytochrome P450-mediated ω/ω -1 hydroxylase activity.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₄H₁₄N₂O. Batch Molecular Weight: 226.27 Physical Appearance: Pale orange solid

Minimum Purity: ≥98%

Batch Molecular Structure:

Storage: Store at +4°C

Solubility & Usage Info:

water to 10 mM DMSO to 100 mM Solutions in DMSO may appear slightly hazy.

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).

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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:

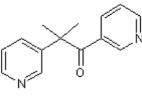
Park et al (2005) Structural and dynamic basis of broad substrate specificity, catalytic mechanism and inhibition of cytochrome P450 3A4. J.Am.Chem.Soc. 127 13634. PMID: 16190729.

Asakura and Shichi (1992) Cytochrome P450-mediated prostaglandin omega/omega-1 hydroxylase activities in porcine ciliary body epithelial cells. Exp. Eye Res. 55 377. PMID: 1426070.

Hays et al (1984) Structure-activity relationship study of the inhibition of adrenal cortical 11β-hydroxylase by new metyr. analogues. J.Med.Chem. 27 15. PMID: 6606707.

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9