



Certificate of Analysis

www.tocris.com

Product Name: Piribedil dihydrochloride Catalog No.: 1031 Batch No.: 4

CAS Number: 1451048-94-4

IUPAC Name: 2-[4-(1,3-Benzodioxol-5-ylmethyl)-1-piperazinyl]pyrimidine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{16}H_{18}N_4O_2.2HCI$

Batch Molecular Weight: 371.27

Physical Appearance: White solid

Solubility: water to 25 mM

Storage: Store at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: $R_f = 0.2$ (Ethyl acetate:Petroleum ether [3:7])

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen Chlorine

Theoretical 51.76 5.43 15.09 19.1 Found 51.85 5.46 14.97 19.05

.2HCl



Product Information

Print Date: Jan 11th 2016

Batch No.: 4

www.tocris.com

Product Name: Piribedil dihydrochloride

CAS Number: 1451048-94-4

IUPAC Name: 2-[4-(1,3-Benzodioxol-5-ylmethyl)-1-piperazinyl]pyrimidine dihydrochloride

Description:

A direct dopamine agonist, in clinical use for treatment of dopaminergic system dysfunction. Recent work suggests that it is selective for the D_3 subtype, for which it has 20 times higher affinity than for D_2 , and possesses no significant affinity for D_1 receptors.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{16}H_{18}N_4O_2.2HCI$

Batch Molecular Weight: 371.27 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:

Storage: Store at RT

Solubility & Usage Info:

water 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).

Catalog No.: 1031

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:

Merck Index 12 7648.

Offermeier and van Rooyen (1986) A comparative study of the locomotor activity effects of apomorphine and the 'atypical dopamine agonists' (piribedil and S36080). Life Sci. 38 895. PMID: 3081774.

Jenne (1992) Parkinson's disease: pathological mechanisms and actions of piribedil. J.Neurol. 239 S2. PMID: 1634907.

Cagnotto et al (1996) In vitro affinity of piribedil for dopamine D₃ receptor subtypes, an autoradiographic study. Eur.J.Pharmacol. 313 63. PMID: 8905329.