

Certificate of Analysis

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Product Name: 7-Hydroxy-PIPAT maleate

Catalog No.: 0719

Batch No.: 3

CAS Number: 200722-46-9

IUPAC Name: (RS)-trans-7-Hydroxy-2-[N-propyl-N-(3'-iodo-2'-propenyl)amino]tetralin maleate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₂₂INO.C₄H₄O₄

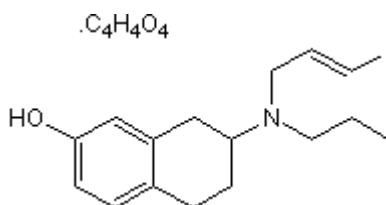
Batch Molecular Weight: 487.33

Physical Appearance: Off-white solid

Solubility: DMSO to 50 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.25 (Ethyl acetate:Petroleum ether [3:7])

Melting Point: Between 162 - 167°C(dec)

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen			
Theoretical	49.29	5.38	2.87	0 0 0
Found	49.39	5.48	3.01	0 0 0

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

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Description:

This ligand has uniquely high affinity and selectivity for the D₃ receptor. 8-Hydroxy-PIPAT maleate (Cat. No. 0797) also available.

Physical and Chemical Properties:

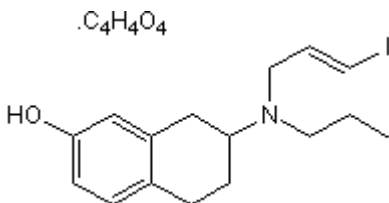
Batch Molecular Formula: C₁₆H₂₂INO.C₄H₄O₄

Batch Molecular Weight: 487.33

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at +4°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:

DMSO to 50 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.

References:

Chumpradit et al (1993) Synthesis and optical resolution of (R)- and (S)-trans-7-hydroxy-2-[N-propyl-N-(3'-iodo-2'-propenyl)amino]tetralin: a new D₃ dopamine receptor ligand. J.Med.Chem. **36** 4308. PMID: 8277513.

Foulon et al (1993) Synthesis of (R,S)-2'-trans-7-hydroxy-2-[N-n-propyl-N-(3'-iodo-2'-amino)]tetralin (trans-7-OH-PIPAT): a new D₃ dopamine receptor ligand. J.Med.Chem. **36** 1499. PMID: 8098771.

Kung et al (1993) In vitro binding of a novel dopamine D₃ receptor ligand: [¹²⁵I]-trans-7-OH-PIPAT. Eur.J.Pharmacol. **235** 165. PMID: 8519278.

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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