

Product Name: MPP dihydrochloride

Catalog No.: 1991

Batch No.: 9

CAS Number: 911295-24-4

IUPAC Name: 1,3-Bis(4-hydroxyphenyl)-4-methyl-5-[4-(2-piperidinyloxy)phenol]-1H-pyrazole dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₃₁N₃O₃·2HCl·1³/₄H₂O

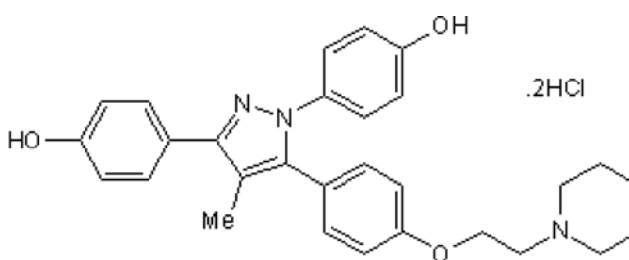
Batch Molecular Weight: 574.02

Physical Appearance: Light brown solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	60.68	6.41	7.32	12.35
Found	62.72	6.17	7.49	9.83

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

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Description:

Selective, high affinity silent antagonist at ER α receptors. Displays > 200-fold selectivity for ER α over ER β . K_i values are 2.7 and 1800 nM at ER α and ER β receptors respectively.

Physical and Chemical Properties:

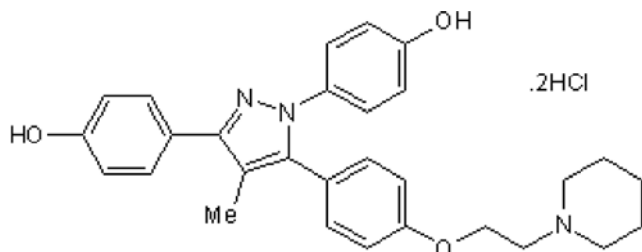
Batch Molecular Formula: C₂₉H₃₁N₃O₃·2HCl·1½H₂O

Batch Molecular Weight: 574.02

Physical Appearance: Light brown solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO 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.

References:

Harrington et al (2003) Activities of estrogen receptor alpha- and beta-selective ligands at diverse responsive gene sites mediating transactivation or transrepression. *Mol.Cell.Endocrinol.* **206** 13. PMID: 12943986.

Sun et al (2002) Antagonists selective for estrogen receptor α . *Endocrinol.* **143** 941.

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