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## DATASHEET

MPP dihydrochloride

### Product overview

<b>Name</b>	MPP dihydrochloride
<b>Cat No</b>	HB2502
<b>Alternative names</b>	Methyl-Piperidinopyrazole
<b>Biological action</b>	Antagonist
<b>Purity</b>	>98%
<b>Description</b>	Selective ER $\alpha$ estrogen receptor antagonist

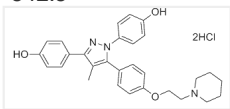
### Biological Data

<b>Biological description</b>	Selective ER $\alpha$ estrogen receptor antagonist ( $K_i$ values are 2.7 and 1800 nM at ER $\alpha$ and ER $\beta$ respectively). Shows >200-fold selectivity for Era compared to Er $\beta$ . Active <i>in vivo</i> .
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### Solubility & Handling

<b>Storage instructions</b>	+4 °C (desiccate)
<b>Solubility overview</b>	Soluble in DMSO (100 mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

### Chemical Data

<b>Chemical name</b>	1,3-Bis(4-hydroxyphenyl)-4-methyl-5-[4-(2-piperidinyloxy)phenol]-1H-pyrazole dihydrochloride
<b>Molecular Weight</b>	542.5
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>29</sub> H <sub>31</sub> N <sub>3</sub> O <sub>3</sub> ·2HCl
<b>CAS Number</b>	911295-24-4
<b>PubChem identifier</b>	45073474
<b>SMILES</b>	OC(C=C4)=CC=C4N1C(C(C=C3)=CC=C3OCCN2CCCCC2)=C(C)C(C5=CC=C(O)C=C5)=N1.Cl.Cl
<b>InChi</b>	InChI=1S/C29H31N3O3/c1-21-28(22-5-11-25(33)12-6-22)30-32(24-9-13-26(34)14-10-24)29(21)23-7-15-27(16-8-23)35-20-19-31-17-3-2-4-18-31/h5-16,33-34H,2-4,17-20H2,1H3
<b>InChiKey</b>	SMPRQALBFACGGO-UHFFFAOYSA-N
<b>MDL number</b>	MFCD06411603

### References

#### Antagonists selective for estrogen receptor alpha.

Sun J *et al* (2002) Endocrinology 143(3)

**PubMedID** [11861516](#)

**Effect of a putative ERalpha antagonist, MPP, on food intake in cycling and ovariectomized rats.**

Santollo J *et al* (2009) *Physiol Behav* 97(2)  
**PubMedID** [19254732](#)

**The effects of the selective estrogen receptor modulators, methyl-piperidino-pyrazole (MPP), and raloxifene in normal and cancerous endometrial cell lines and in the murine uterus.**

Davis AM *et al* (2006) *Mol Reprod Dev* 73(8)  
**PubMedID** [16688783](#)

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