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DATASHEET

MPP dihydrochloride

Product overview

Name	MPP dihydrochloride
Cat No	HB2502
Alternative names	Methyl-Piperidinopyrazole
Biological action	Antagonist
Purity	>98%
Description	Selective ER α estrogen receptor antagonist

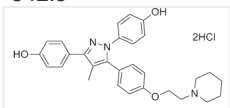
Biological Data

Biological description	Selective ER α estrogen receptor antagonist (K_i values are 2.7 and 1800 nM at ER α and ER β respectively). Shows >200-fold selectivity for ER α compared to ER β . Active <i>in vivo</i> .
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Solubility & Handling

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

Chemical Data

Chemical name	1,3-Bis(4-hydroxyphenyl)-4-methyl-5-[4-(2-piperidinyloxy)phenol]-1H-pyrazole dihydrochloride
Molecular Weight	542.5
Chemical structure	
Molecular Formula	C ₂₉ H ₃₁ N ₃ O ₃ ·2HCl
CAS Number	911295-24-4
PubChem identifier	45073474
SMILES	OC(C=C4)=CC=C4N1C(C(C=C3)=CC=C3OCCN2CCCCC2)=C(C)C(C5=CC=C(O)C=C5)=N1.Cl.Cl
InChi	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
InChiKey	SMPRQALBFACGGO-UHFFFAOYSA-N
MDL number	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](#)
