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DATASHEET

PPT

Product overview

Name	PPT
Cat No	HB2499
Biological action	Agonist
Purity	>98%
Description	Selective ER α estrogen receptor agonist

Biological Data

Biological description	Selective ER α estrogen receptor agonist (K_d values are 2 and 1000 nM at ER α and ER β respectively). Displays a 410-fold higher selectivity for ER α over ER β . Shows neuroprotective effects. Active <i>in vivo</i> .
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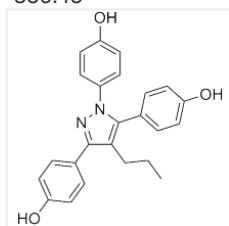
Solubility & Handling

Storage instructions	+4 °C
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 4,4',4''-(4-Propyl-[1H]-pyrazole-1,3,5-triyl)trisphenol
Molecular Weight 386.45

Chemical structure



Molecular Formula

C₂₄H₂₂N₂O₃

CAS Number

263717-53-9

PubChem identifier

6095481

SMILES

CCCC1=C(N(NC1=C2C=CC(=O)C=C2)C3=CC=C(C=C3)O)C4=CC=C(C=C4)O

InChi

InChi=1S/C24H22N2O3/c1-2-3-22-23(16-4-10-19(27)11-5-16)25-26(18-8-14-21(29)15-9-18)24(22)17-6-12-20(28)13-7-17/h4-15,25,28-29H,2-3H2,1H3

InChiKey

UOSWGERPQQOSHS-UHFFFAOYSA-N

MDL number

MFCD03453628

References

Pharmacokinetics of the estrogen receptor subtype-selective ligands, PPT and DPN: quantification using UPLC-ES/MS/MS.

Sephehr E *et al* (2012) J Pharm Biomed Anal 71

PubMedID

22981216

Estrogen receptor subtypes alpha and beta contribute to neuroprotection and increased Bcl-2 expression in primary hippocampal neurons.

Zhao L *et al* (2004) Brain Res 1010(1-2)

PubMedID

15126114

The possible role of estrogen and selective estrogen receptor modulators in a rat model of Parkinson's disease.

Baraka AM *et al* (2011) Life Sci 88(19-20)

PubMedID

21420980
