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DATASHEET

DPN

Product overview

Name	DPN
Cat No	HB2489
Description	Selective ER β estrogen receptor agonist
Alternative names	Diarylpropionitrile
Biological action	Agonist
Purity	>99%

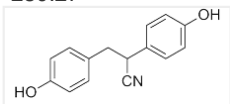
Biological Data

Biological description	Selective ER β estrogen receptor agonist (K_d values are 5 and 400 nM at ER β and ER α respectively). Shows 70-fold selectivity at ER β over ER α . Shows neuroprotective effects. Active <i>in vivo</i> .
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Solubility & Handling

Storage instructions	-20°C (desiccate)
Solubility overview	Soluble in DMSO (100 mM) and in ethanol (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	2,3-bis(4-Hydroxyphenyl)-propionitrile
Molecular Weight	239.27
Chemical structure	
Molecular Formula	C ₁₅ H ₁₃ NO ₂
CAS Number	1428-67-7
PubChem identifier	102614
SMILES	C1=CC(=CC=C1CC(C#N)C2=CC=C(C=C2)O)O
InChi	InChI=1S/C15H13NO2/c16-10-13(12-3-7-15(18)8-4-12)9-11-1-5-14(17)6-2-11/h1-8,13,17-18H,9H2
InChiKey	GHZHWADWADLAIQ-UHFFFAOYSA-N
MDL number	MFCD01695412

References

Estrogen receptor-beta potency-selective ligands: structure-activity relationship studies of diarylpropionitriles and their acetylene and polar analogues.

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

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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)

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

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