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DATASHEET

ODQ

Product overview

Name	ODQ
Cat No	HB2900
Biological action	Inhibitor
Purity	>98%
Description	Potent, selective guanylyl cyclase inhibitor

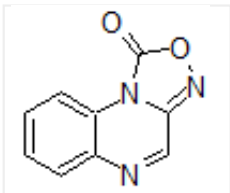
Biological Data

Biological description	Potent, selective guanylyl cyclase inhibitor ($IC_{50} = \sim 20$ nM). Shows anxiolytic and anti-tumour actions. Also shows potential memory disturbing effects.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (100mM) and in ethanol (20 mM, gentle warming)
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	1H-[1,2,4]Oxadiazolo[4,3-a]quinoxalin-1-one
Molecular Weight	187.16
Chemical structure	
Molecular Formula	C ₉ H ₅ N ₃ O ₂
CAS Number	41443-28-1
PubChem identifier	1456
SMILES	C1=CC=C2C(=C1)N=CC3=NOC(=O)N23
Source	Synthetic
InChi	InChI=1S/C9H5N3O2/c13-9-12-7-4-2-1-3-6(7)10-5-8(12)11-14-9/h1-5H
InChiKey	LZMHWZHOZLVYDL-UHFFFAOYSA-N
MDL number	MFCD00792620
Appearance	White solid

References

Nitric oxide-dependent long-term potentiation is blocked by a specific inhibitor of soluble guanylyl cyclase.

Boulton et al (1995) Neuroscienc 69(3)

PubMedID [8596640](#)

In vivo microdialysis study of a specific inhibitor of soluble guanylyl cyclase on the glutamate receptor/nitric oxide/cyclic GMP pathway.

Fedele et al (1996) Br J Pharmacol 119(3)

PubMedID [8894183](#)

Potent and selective inhibition of nitric oxide-sensitive guanylyl cyclase by 1H-[1,2,4]oxadiazolo[4,3-a]quinoxalin-1-one.

Garthwaite et al (1995) Moll Pharmacol 48(2)

PubMedID [7544433](#)
