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Product Information

1H-[1,2,4]Oxadiazolo[4,3-a]quinoxalin-1-one

Product Number **O 3636**

Storage Temperature 2-8 °C

Product Description

Molecular Formula: $C_9H_5N_3O_2$

Molecular Weight: 187.2

CAS Number: 41443-28-1

Synonym: ODQ

This compound is a highly selective, irreversible, heme-site inhibitor of soluble guanylyl cyclase. The binding of ODQ is competitive with NO, but the inhibition of soluble guanylyl cyclase activity has no effect on particulate guanylyl cyclase or adenylyl cyclase. It also does not appear to interfere with any steps leading to NO synthesis. The inhibition of soluble guanylyl cyclase is time dependent with complete inactivation in 10 minutes at 0.3 μ M ODQ.^{1,2}

Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions

ODQ is soluble in chloroform (10 mg/ml), acetonitrile (20 mg/ml), ethyl acetate, and DMSO (5 mg/ml). However, it is insoluble in water.

Storage/Stability

DMSO solutions of ODQ may be stored at 2-8 °C for 3-5 days and at -20 °C for 3-4 weeks.

References

1. Schrammel, A., et al., Characterization of 1H-[1,2,4]oxadiazolo[4,3-a]quinoxalin-1-one as a heme-site inhibitor of nitric oxide-sensitive guanylyl cyclase.
2. Mol. Pharmacol., **50**, 1-5 (1996).
3. Garthwaite, J., et al., Potent and selective inhibition of nitric oxide-sensitive guanylyl cyclase by 1H-[1,2,4]oxadiazolo[4,3-a]quinoxalin-1-one. Mol. Pharmacol., **48**, 184-188 (1995).

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