

ODQ, Soluble guanylyl cyclase inhibitor

Catalog	Unit
TBI1211-5MG	5 mg
TBI1211-25MG	25 mg

Product Details

Formal Name: 1H-[1,2,4]oxadiazolo[4,3-a]quinoxalin-1-one

Molecular Formula: C₉H₅N₃O₂

Formula Weight: 187.15

CAS Number: 41443-28-1

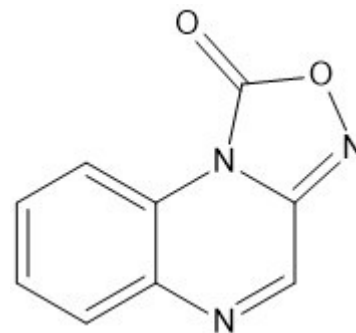
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 40 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Soluble guanylyl cyclase inhibitor

Functions

A potent and selective inhibitor of soluble guanylyl cyclase (sGC), IC₅₀ = 20 nM). ODQ acts via competition with NO for the heme site of sGC where it binds irreversibly. ODQ does not inhibit NO-mediated macrophage toxicity, an activity that is unrelated to cGMP nor does it inhibit particulate GC. ODQ is an extremely useful tool to explore the involvement of the NO-cGMP pathway in cellular signaling and physiologic processes.

Application Procedures

First dissolved in DMSO (up to 40 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20° for up to 3 months.

For research use only.