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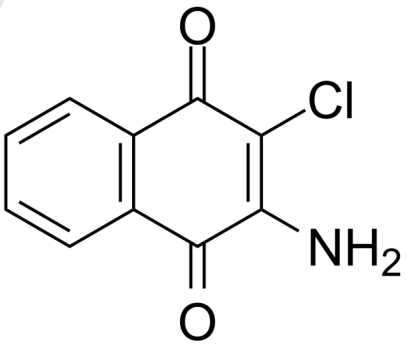
Certificate of Analysis

Catalog Number	BP17742
Product Name	Quinoclamine

Physical and Chemical Properties

CAS No.	2797-51-5
Chemical Formula	C10H6ClNO2
Molecular Weight	207.61
Solubility	DMSO: 250 mg/mL (1204.18 mM), Need ultrasonic
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	Quinoclamine is a naphthoquinone derivative and is an NF-κB inhibitor.

In vitro	Quinoclamine induces the differentiation of U-937 cells into macrophage-like cells. Quinoclamine inhibits NF-κB activities in HepG2 cells (IC50: 1.7 μM). Quinoclamine inhibits induced NF-κB activities in lung and breast cancer cell lines. Quinoclamine affects the expression levels of genes involved in cell cycle or apoptosis. Quinoclamine down-regulates the expressions of UDP glucuronosyltransferase genes involved in phase II drug metabolism. Quinoclamine (1-4 μM; 30 minutes) inhibits endogenous NF-κB activity in HepG2 cells through the inhibition of IκB-α phosphorylation and p65 translocation .

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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