LKT Laboratories, Inc.

Clioquinol

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Product Information

Product ID C451338

CAS No. 130-26-7

Chemical Name

Synonym 5-Chloro-7-iodoquinolin-8-ol, Iodochlorhydroxyquin, Chinoform Chloroiodoquin, 5-Chloro-8-hydroxy-7-iodoquinoline
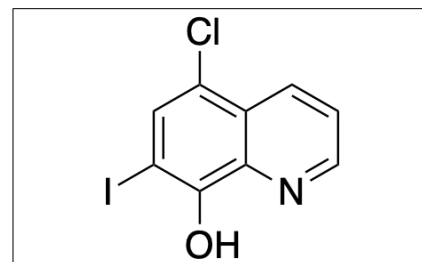
Formula C_9H_5ClINO

Formula Wt. 305.50

Melting Point

Purity ≥98%

Solubility Practically insoluble in water and in ethanol.

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
C451338	1 g	$61.40
C451338	5 g	$149.80

Store Temp Ambient

Ship Temp Ambient

Description Clioquinol is an antifungal agent that has exhibited neuroprotective and anticancer properties. It is a metal ionophore that inhibits growth of pathogenic fungi including strains of *Candida* and *Aspergillus*.

Treatment using clioquinol in models of Huntington's disease in mice resulted in improved behavioral and pathologic phenotypes and extension of life span. The structural and functional features of clioquinol as a metal chelating aggregation modulator have been adapted in combination with epigallocatechin gallate to create a hybrid modulator that prevents the generation of reactive oxygen species and interrupting the interaction of toxic amyloid-beta species with mitochondria, making it a potential treatment for Alzheimer's disease.

References You Z., Ran X., et al. Clioquinol, an alternative antimicrobial agent against common pathogenic microbe. J Mycol Med. 28 (3):492-501 (2018). PMID: 29650464.

Nguyen T., Hamby A., et al. Clioquinol down-regulates mutant huntingtin expression in vitro and mitigates pathology in a Huntington's disease mouse model. Proc Natl Acad Sci. 102(33):11840-11845 (2005). PMID: 16087879.

Rajasekhar K., Mehta K., et al. Hybrid Multifunctional Modulators Inhibit Multifaceted Aβ Toxicity and Prevent Mitochondrial Damage. ACS Chem Neurosci. 9(6):1432-1440 (2018). PMID: 29557650.