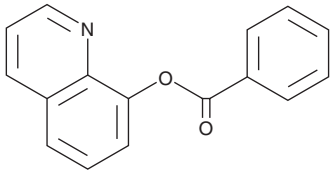
PRODUCT INFORMATION

Benzoxiquine

Item No. 45705

CAS Registry No.: 86-75-9
Formal Name: 8-benzoate 8-quinolinol
Synonyms: Benzoxyline, 8-Benzoyloxyquinoline, 8-Hydroxyquinoline Benzoate, Oxyquinoline Benzoate, 8-Quinolinol Benzoate, NSC 3951
MF: $C_{16}H_{11}NO_2$
FW: 249.3
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Benzoxiquine is supplied as a solid. A stock solution may be made by dissolving the benzoxiquine in the solvent of choice, which should be purged with an inert gas. Benzoxiquine is soluble (≥10 mg/ml) in DMSO.

Description

Benzoxiquine is a benzoic acid ester of 8-hydroxyquinoline.[1] It inhibits the protein-protein interaction between the synaptic adhesion molecules neurexin-1-α and leucine-rich repeat transmembrane neuronal protein 2 (LRRTM2; IC_{50} = 45 µM).[2] Benzoxiquine inhibits the proliferation of MIA PaCa-2 and PANC-1 pancreatic, HCT116 colon, and KYSE-70 esophageal cancer cells (IC_{50}s = 5.4, 4.9, 3.7, and 6.6 µM, respectively).[3]

References

1. Anderson, F.A. Final report on the safety assessment of benzoxiquine. *J. Toxicol.* **16(suppl. 1),** 117-122 (1997).
2. Karki, S., Maksimainen, M.M., Lehtiö, L., *et al.* Inhibitor screening assay for neurexin-LRRTM adhesion protein interaction involved in synaptic maintenance and neurological disorders. *Anal. Biochem.* **587,** 113463 (2019).
3. Hu, S., Jin, Y., Liu, Y., *et al.* Synthesis and mechanistic studies of quinolin-chlorobenzothioate derivatives with proteasome inhibitory activity in pancreatic cancer cell lines. *Eur. J. Med. Chem.* **158,** 884-895 (2018).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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