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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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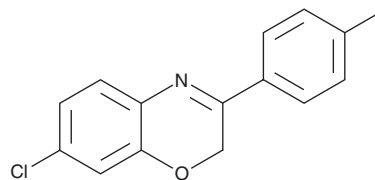
PRODUCT INFORMATION



AR-7

Item No. 22946

CAS Registry No.: 80306-38-3
Formal Name: 7-chloro-3-(4-methylphenyl)-2H-1,4-benzoxazine
MF: C₁₅H₁₂ClNO
FW: 257.7
Purity: ≥98%
UV/Vis.: λ_{max}: 225, 233, 240, 254, 337 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

AR-7 is supplied as a crystalline solid. A stock solution may be made by dissolving the AR-7 in the solvent of choice, which should be purged with an inert gas. AR-7 is soluble in DMSO.

Description

AR-7 is a retinoic acid receptor α (RAR α) antagonist.¹ In mouse fibroblasts, AR-7 (20 μ M) increases chaperone-mediated autophagy in an RAR α -dependent manner, increases LAMP-2A expression, and inhibits paraquat-induced decreases in cell viability. AR-7 is also selectively cytotoxic to HepG2 cells grown under hypoxic over normoxic conditions (IC₅₀s = 10 and >1,000 μ M, respectively).²

References

1. Anguiano, J., Garner, T.P., Mahalingam, M., *et al.* Chemical modulation of chaperone-mediated autophagy by retinoic acid derivatives. *Nat. Chem. Biol.* **9(6)**, 374-382 (2013).
2. Das, B.C., Madhukumar, A.V., Anguiano, J., *et al.* Design, synthesis and biological evaluation of 2H-benzo[b][1,4]oxazine derivatives as hypoxia targeted compounds for cancer therapeutics. *Bioorg. Med. Chem. Lett.* **19(15)**, 4204-4206 (2009).

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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