



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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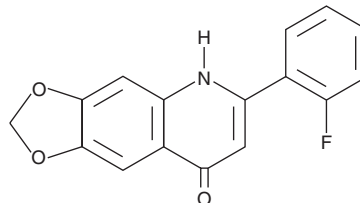
PRODUCT INFORMATION



CHM-1

Item No. 27647

CAS Registry No.: 154554-41-3
Formal Name: 6-(2-fluorophenyl)-1,3-dioxolo[4,5-g]quinolin-8(5H)-one
Synonyms: NSC 656158
MF: C₁₆H₁₀FNO₃
FW: 283.3
Purity: ≥98%
UV/Vis.: λ_{max}: 228, 256, 326 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

CHM-1 is supplied as a crystalline solid. A stock solution may be made by dissolving the CHM-1 in the solvent of choice, which should be purged with an inert gas. CHM-1 is soluble in DMSO.

Description

CHM-1 is an inhibitor of tubulin polymerization (IC₅₀ = 0.68 μM) with anticancer activity.¹ It inhibits colchicine (Item No. 9000760) tubulin binding by 39% when used at a concentration of 5 μM. CHM-1 inhibits the growth of K562, NCI H226, HCT116, OVCAR-3, RXF 393L, SK-MEL-5, SF-268, and SF-295 cancer cells (mean GI₅₀ = 130 nM). It induces apoptosis in HA22T hepatocellular carcinoma cells in a concentration-dependent manner.² CHM-1 (10 mg/kg) reduces tumor volume and increases survival in an HA22T mouse xenograft model.

References

1. Xia, Y., Yang, Z.-Y., Xia, P., *et al.* Antitumor agents. 211. Fluorinated 2-phenyl-4-quinolone derivatives as antimitotic antitumor agents. *J. Med. Chem.* **44**(23), 3932-3936 (2001).
2. Wang, S.-W., Pan, S.-L., Huang, Y.-C., *et al.* CHM-1, a novel synthetic quinolone with potent and selective antimitotic antitumor activity against human hepatocellular carcinoma *in vitro* and *in vivo*. *Mol. Cancer Ther.* **7**(2), 350-360 (2008).

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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