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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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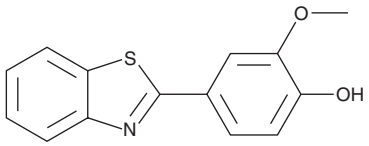
PRODUCT INFORMATION

YL-109

Item No. 30290

CAS Registry No.: 36341-25-0
Formal Name: 4-(2-benzothiazolyl)-2-methoxy-phenol
MF: $C_{14}H_{11}NO_2S$
FW: 257.3
Purity: ≥98%
UV/Vis.: λ_{max}: 220, 327 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

YL-109 is supplied as a crystalline solid. A stock solution may be made by dissolving the YL-109 in the solvent of choice, which should be purged with an inert gas. YL-109 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of YL-109 in these solvents is approximately 1 mg/ml in ethanol and 30 mg/ml in DMSO and DMF.

YL-109 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, YL-109 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. YL-109 has a solubility of approximately 0.1 mg/ml in a 1:9 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

YL-109 is an anticancer agent.[1] It inhibits the proliferation of MCF-7 and MDA-MB-231 cells (IC_{50}s = 0.0858 and 4.2 µM, respectively), as well as migration and invasion by MDA-MB-231 cells *in vitro*. It induces expression of carboxyl terminus of Hsp70-interacting protein (CHIP) in MDA-MB-231 cells in an *AHR*-dependent manner. YL-109 (1 µM) inhibits MDA-MB-231-derived cancer stem cell (CSC) mammosphere formation. *In vivo*, YL-109 (15 mg/kg) reduces tumor volume and the number of metastases in an MDA-MB-231 mouse xenograft model.

Reference

1. Hiyoshi, H., Gato, N., Tsuchiya, M., *et al*. 2-(4-Hydroxy-3-methoxyphenyl)-benzothiazole suppresses tumor progression and metastatic potential of breast cancer cells by inducing ubiquitin ligase CHIP. *Sci. Rep*. **4:7095** (2014).

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