CAY10503
Item No. 10008872

CAS Registry No.: 890854-82-7
Formal Name: 4-(4-hydroxyphenyl)phenyl-3,5-benzenediol
MF: C₁₈H₁₄O₃
FW: 278.3
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ max: 207, 291 nm

Laboratory Procedures
For long term storage, we suggest that CAY10503 be stored as supplied at -20°C. It will be stable for at least two years. CAY10503 is supplied as a crystalline solid. A stock solution may be made by dissolving the CAY10503 in an organic solvent purged with an inert gas. CAY10503 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of CAY10503 in ethanol and DMF is approximately 30 mg/ml and approximately 20 mg/ml in DMSO.

CAY10503 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CAY10503 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. CAY10503 has a solubility of approximately 0.25 mg/ml in a 1:3 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

CAY10503 is a proapoptotic, antiproliferative compound that is able to arrest cell cycle progression in the G₀-G₁ phase.¹ CAY10503 inhibits the growth of HL60, multidrug resistant HL60R, and K562 cells with IC₅₀ values of 7.0, 23, and 20 µM, respectively. Accumulation of HL60 cells in G₀-G₁ occurred within eight hours following treatment with 50 µM CAY10503, whereas 10 µM CAY10503 required 96 hours for cell cycle arrest to appear. CAY10503 also induces differentiation of HL60 cells into the following positive cells: CD14 (monocytic marker) as well as CD11b and CD11c (granulocytic markers). Approximately 60% of HL60 cells exposed to 10 µM CAY10503 expressed these markers within 72 hours.¹

Reference

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/10008872

WARNING: This Product is for Laboratory Research Only: Not for Administration to Humans. Not for Human or Veterinary Diagnostic or Therapeutic Use.

MATERIAL SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals herein. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery. Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence. This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

Buyer’s exclusive remedy and Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.