

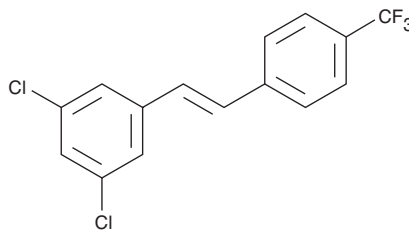
Product Information



CAY10465

Catalog No. 10006546

CAS Registry No.: 688348-33-6
Formal Name: 1,3-dichloro-5-[(1E)-2-[4-(trifluoromethyl)phenyl]ethenyl]-benzene
MF: C₁₅H₉Cl₂F₃
FW: 317.1
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that CAY10465 be stored as supplied at -20°C. It will be stable for at least two years.

CAY10465 is supplied as a crystalline solid. A stock solution may be made by dissolving the CAY10465 in an organic solvent purged with an inert gas. CAY10465 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of CAY10465 in these solvents is at least 20 mg/ml.

CAY10465 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CAY10465 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. CAY10465 has a solubility of 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

The aryl hydrocarbon receptor (AhR) is a ligand-dependent intracellular transcription factor whose ligands include some of the most infamous xenobiotics, including dioxin, benzo[a]pyrene, and numerous polyaromatics from soot and coal tar.¹ CAY10465 is an analog of resveratrol acting as a potent and selective AhR agonist, with a K_i of 0.2 nM.² CAY10465 is inactive as a ligand for the estrogen receptor even at 100 μM.

References

1. Denison, M.S. and Nagy, S.R. Activation of the aryl hydrocarbon receptor by structurally diverse exogenous and endogenous chemicals. *Annu. Rev. Pharmacol. Toxicol.* **43**, 309-334 (2003).
2. de Medina, P., Casper, R., Savouret, J.-F., *et al.* Synthesis and biological properties of new stilbene derivatives of resveratrol as new selective aryl hydrocarbon modulators. *J. Med. Chem.* **48**, 287-291 (2005).

Related Products

Resveratrol - Cat. No. 70675 • PDM 11 - Cat. No. 10006341 • PDM 2 - Cat. No. 10006342

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WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

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 under separate cover to the MSDS supervisor at your institution.

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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.

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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.

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