

BMS 453

Catalog Number :1664317

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: BMS453, BMS-453, BMS-189453

Chemical Name: 4-[(E)-2-(5,5-dimethyl-8-phenyl-6H-naphthalen-2-yl)ethenyl]benzoic acid

Molecular Formula: C₂₇H₂₄O₂

Molecular Weight: 380.5

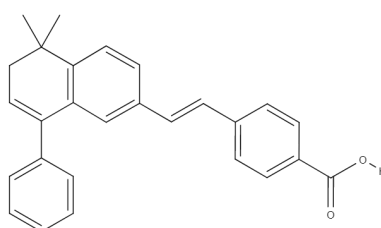
CAS Number: 166977-43-1

Purity: ≥98%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

BMS 453 is a synthetic retinoid and RAR α and RAR γ antagonist and a RAR β agonist. It is reported to induce TGF-Beta activity and cause G1 arrest and inhibit breast cell proliferation. BMS 453 also increases the efficiency of human ESCs cardiac differentiation.

Preparation & Storage

Soluble in organic solvents such as DMF and DMSO. DMSO up to 10mg/ml.

References

- Chen, J. Y., Clifford, J., Zusi, C., Starrett, J., Tortolani, D., Ostrowski, J., ... Gronemeyer, H. (1996). Two distinct actions of retinoid-receptor ligands.;*Nature*,;382(6594), 819.
- Zhang, Q., Jiang, J., Han, P., Yuan, Q., Zhang, J., Zhang, X., ... Tian, T. (2011). Direct differentiation of atrial and ventricular myocytes from human embryonic stem cells by alternating retinoid signals.;*Cell research*,;21(4), 579.
- Barnard, J. H., Collings, J. C., Whiting, A., Przyborski, S. A., Marder, T. B. (2009). Synthetic retinoids: structure;activity relationships.;*Chemistry-A European Journal*,;15(43), 11430-11442.