

Product Data Sheet

Product Name: CAY10706

Cat. No.: GC40650

Chemical Properties

Cas. No. 1881270-27-4

SMILES OC1=CC=C(/C=C/C(/C=C/C2=NC(C)=C(C)N=C2C)=O)C=C1OC

Formula C₁₉H₂₀N₂O₃

M.Wt 324.4

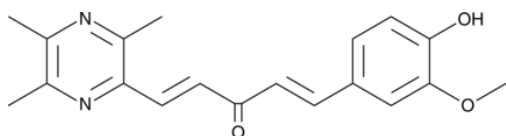
Solubility DMF: 1 mg/ml

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

CAY10706 is a ligustrazine-curcumin hybrid that promotes intracellular reactive oxygen species accumulation preferentially in lung cancer cells. It has been shown to inhibit the proliferation of drug-sensitive (A549 (IC₅₀ = 2.19 μM), SPC-A-1 (IC₅₀ = 3.12 μM), LTEP-G-2 (IC₅₀ = 2.88 μM)) and drug-resistant (A549/DDP (IC₅₀ = 0.6 μM)) lung cancer cells but demonstrates little effect on non-tumor lung epithelial-like cells (HBE (IC₅₀ = 21.34 μM)). CAY10706 can suppress the thioredoxin reductase system and inhibit the NF-κB, Akt, and ERK signaling.

Caution: Product has not been fully validated for medical applications. For research use only.

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