

Product Data Sheet

Product Name: CAY10726

Cat. No.: GC43203

Chemical Properties

Cas. No. 1611446-66-2

SMILES C1C=CC=C(NC(NCCCCCCCCCCCCCCCCC(O)=O)=O)C=C1C(F)(F)F

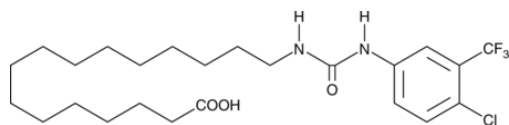
Formula C₂₄H₃₆ClF₃N₂O₃ M.Wt 493

Solubility DMF: 20 mg/ml, DMF:PBS(pH7.2) (1:2): 0.33 mg/ml, DMSO: 5 mg/ml, Ethanol: 12 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

CAY10726 is an arylurea fatty acid. It decreases ATP production by 28% in MDA-MB-231 breast cancer cells when used at a concentration of 10 µM. CAY10726 decreases proliferation and initiates apoptosis in MDA-MB-231 cells via depletion of the phospholipid cardiolipin and its precursor phosphatidylglycerol from the mitochondrial membrane. In vivo, CAY10726 (2.5-40 mg/kg) reduces tumor volume and increases tumor cell apoptosis in a mouse MDA-MB-231 breast cancer xenograft model in a dose-dependent manner.

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

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