

Product Data Sheet

Product Name: CAY10449

Cat. No.: GC43156

Chemical Properties

Cas. No.

SMILES CC(C)Oc1ccc(cc1)C(=O)c1ccc(cc1)NC1=NCCN1

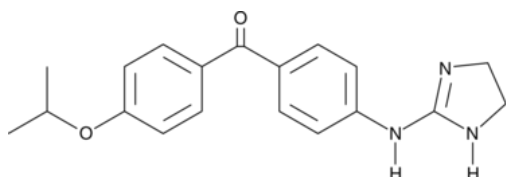
Formula C₁₉H₂₁N₃O₂ M.Wt 323.4

Solubility DMF: 2 mg/ml, DMF:PBS (pH 7.2) Storage Store at -20°C
(1:1): .5 mg/ml, DMSO: 2 mg/ml

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

Recently, a series of relatively simple compounds were found to be high-affinity ligands and functional antagonists for the human IP (prostacyclin) receptor. CAY10449 is one of the more potent of these. CAY10449 antagonizes the carbaprostacyclin-induced activation of human neuroblastoma adenylate cyclase, blocking cyclic AMP accumulation in a dose-dependent manner. Likewise, it inhibits the binding of tritiated iloprost to rodent neuroblastoma cells with a K_i value of about 3 nM. Although CAY10449 was not tested in rats, the related compound CAY10441 shows significant analgesic activity in standard antinociceptive assays.

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

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