
Product Data Sheet

Product Name: CAY10595

Cat. No.: GC18678

Chemical Properties

Cas. No. 916047-16-0

Chemical Name 5-chloro-1'-[5-chloro-2-fluorophenyl)methyl]-2,2',5'-trioxo-spiro[3H-indole-3,3'pyrrolidine]-1(2H)-acetic acid

SMILES C1C=CC=C(N(CC(O)=O)C(C23CC(N(CC4=C(F)C=CC(Cl)=C4)C3=O)=O)=O)C2=C1Formula $C_{20}H_{13}Cl_2FN_2O_5$ M.Wt 451.2

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO:PBS (pH 7.2) (1:10): 0.5 mg/ml, Ethanol: 25 mg/ml 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 sizes: ship with RT, or blue ice upon request.

Structure **Background**

The biological effects of prostaglandin D2 (PGD2) are transduced by at least two 7-transmembrane G protein-coupled receptors, designated DP1 and CRTH2/DP2. In humans, CRTH2/DP2 is expressed on Th2 cells, eosinophils, and basophils where it mediates the chemotactic activity of PGD2. CAY10595, as a racemic mixture, is a potent CRTH2/DP2 receptor antagonist that binds to the human receptor with a K_i value of 10 nM. The R enantiomer of CAY10595 is significantly more potent exhibiting K_i values of 5.3 and 5 nM at the human and murine CRTH2/DP2 receptor, respectively. The R enantiomer of CAY10595 inhibits eosinophil chemotaxis induced by 13,14-dihydro-15-keto-PGD2 with an IC_{50} value of 7.3 nM.

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

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