
Product Data Sheet

Product Name: CAY10606

Cat. No.: GC18877

Chemical Properties

Cas. No. 1159576-98-3

Chemical Name 2-[(3-chlorophenyl)methyl]-5-hydroxy-1H-benz[g]indole-3-carboxylic acid, ethyl ester

SMILES OC1=CC2=C(NC(CC3=CC=CC(Cl)=C3)=C2C(OCC)=O)C4=C1C=CC=C4Formula $C_{22}H_{18}ClNO_3$ M.Wt 379.8

Solubility DMF: 25 mg/ml, DMSO: 25 mg/ml, Ethanol: 20 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**

5-Lipoxygenase (5-LO) initiates the synthesis of leukotrienes (LTs) from arachidonic acid, primarily in certain leukocyte populations. CAY10606 is a potent, reversible inhibitor of 5-LO, both in cell-free assays (IC₅₀ = 86 nM) and in intact neutrophils (IC₅₀ = 230 nM). It prevents the production of LTs in whole blood, whether 5-LO is activated with the calcium ionophore A23187 (IC₅₀ = 1.6 μM) or formyl peptide (fMLP) following priming with lipopolysaccharide (IC₅₀ = 830 nM). In rats subjected to carrageenan-induced pleurisy, CAY10606 significantly reduces both LT biosynthesis and the inflammatory reaction.

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

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