Laboratory Procedures

For long term storage, we suggest that CAY10606 be stored as supplied at -20°C. It should be stable for at least two years.

CAY10606 is supplied as a crystalline solid. A stock solution may be made by dissolving the CAY10606 in an organic solvent purged with an inert gas. CAY10606 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of CAY10606 in these solvents is approximately 20 mg/ml.

If aqueous stock solutions are required for biological experiments, they can best be prepared by diluting the organic solvent into aqueous buffers or isotonic saline. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

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.1

Reference


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