CAY10649
Item No. 10804

CAS Registry No.: 1272519-89-7
Formal Name: (Z)-2-(4-chlorophenyl)-5-(4-methoxybenzylidene)thiazol-4(5H)-one
MF: C_{17}H_{12}ClNO_{2}S
FW: 329.8
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}^\text{nm}: 297, 428 nm

Laboratory Procedures
For long term storage, we suggest that CAY10649 be stored as supplied at -20°C. It should be stable for at least two years.

CAY10649 is supplied as a crystalline solid. A stock solution may be made by dissolving the CAY10649 in the solvent of choice. CAY10649 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of CAY10649 in these solvents is approximately 0.5 mg/ml and 1 mg/ml, respectively.

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) catalyzes the biosynthesis of leukotrienes, which are involved in a variety of inflammatory responses, including neutrophil chemotaxis, vascular permeability, and smooth muscle contraction.\(^1\) CAY10649 is a thiazolinone compound that demonstrates direct inhibition of 5-LO product formation in intact polymorphonuclear leukocytes (PMNL) (IC\(_{50}\) = 0.28 μM) and a soluble fraction of a S100 PMNL cell lysate (IC\(_{50}\) = 0.09 μM) after stimulation with calcium and arachidonic acid.\(^2\)

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/10804

MATERIAL SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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