
Product Data Sheet

Product Name: CAY10649

Cat. No.: GC18480

Chemical Properties

Cas. No. 1272519-89-7

Chemical Name (Z)-2-(4-chlorophenyl)-5-(4-methoxybenzylidene)thiazol-4(5H)-one

SMILES COC1=CC=C(/C=C2C(N=C(C3=CC=C(Cl)C=C3)S/2)=O)C=C1Formula C₁₇H₁₂ClNO₂S M.Wt 329.8

Solubility DMF: 1 mg/ml, DMSO: 0.5 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) catalyzes the biosynthesis of leukotrienes, which are involved in a variety of inflammatory responses, including neutrophil chemotaxis, vascular permeability, and smooth muscle contraction. CAY10649 is a thiazolinone compound that demonstrates direct inhibition of 5-lipoxygenase (5-LO) product formation in intact polymorphonuclear leukocytes (PMNL) (IC₅₀ = 0.28 μM) and a soluble fraction of a S100 PMNL cell lysate (IC₅₀ = 0.09 μM) after stimulation with calcium and arachidonic acid.

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

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