

Product Data Sheet

Product Name: 1-(4-Methylthiazol-5-yl)ethanone

Cat. No.: GF46386

Chemical Properties

Cas. No. 38205-55-9

Formula C_6H_7NOS M.Wt 141.19

Solubility DMSO : 200 mg/mL(1416.53 mM; Storage Store at room temperature
Need ultrasonic)

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.

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

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Structure



Background

CYP2E1-IN-1 (Compound 10) is an orally active cytochrome P450 2E1 (CYP2E1) inhibitor with a K_d of 7.02 μ M, an IC_{50} of 1.64 μ M, and a K_i of 0.897 μ M. CYP2E1-IN-1 activates the Nrf2/HO-1 signaling pathway and inhibits ROS production, thereby alleviating pancreatic injury. CYP2E1-IN-1 has significant anti-inflammatory and antioxidant activities and can effectively reduce inflammation and oxidative stress in severe acute pancreatitis (SAP). CYP2E1-IN-1 can be used in the study of SAP and other inflammatory-related diseases^[1].

References:

[1]. Qiu J, et al. Discovery of a CYP2E1 inhibitor and its therapeutic potential in severe acute pancreatitis. *Eur J Med Chem.* 2025 Aug 5;292:117666.

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