

Product Data Sheet

Product Name: HDB-1
Cat. No.: GC79328

Chemical Properties

Cas. No. 3021527-82-9

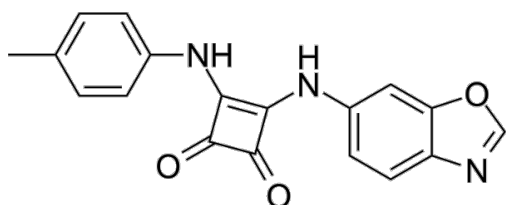
Formula $C_{18}H_{13}N_3O_3$ M.Wt 319.31

Solubility DMSO: 2.5 mg/mL (7.83 mM); ultrasonic and warming and heat to 60°C) 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

HDB-1 is a selective inhibitor of the P2Y₁₄ receptor (P2Y₁₄R) with an IC₅₀ of 26 pM. HDB-1 shows no significant inhibition on P2Y₁R, P2Y₂R, P2Y₄R, P2Y₆R, and P2Y₁₂R. HDB-1 blocks the activation of hepatic stellate cells (HSC) by inhibiting the PKA/Raf1/MEK/ERK signaling pathway mediated by P2Y₁₄R, thereby alleviating the core pathological process of liver fibrosis. HDB-1 can be used for the study of liver fibrosis [1].

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

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References:

[1]. Li C, et al. Discovery of Novel P2Y₁₄R Inhibitors for Ameliorating Liver Fibrosis by Suppressing Hepatic Stellate Cell Activation. J Med Chem. 2025 Nov 13;68(21):23277-23299.

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