

Product Data Sheet

Product Name: ACSL5-IN-2

Cat. No.: GC81627

Chemical Properties

Cas. No. 3098297-74-3

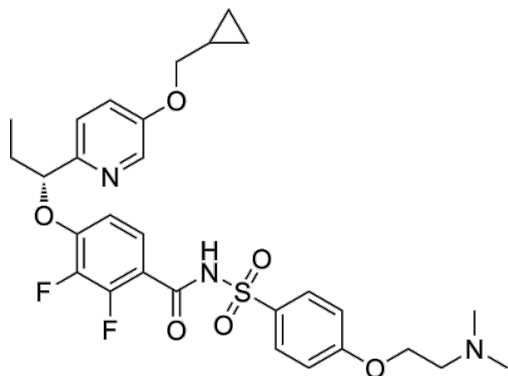
Formula $C_{29}H_{33}F_2N_3O_6S$ M.Wt 589.65

Solubility DMSO: 25 mg/mL (42.40 mM; Need ultrasonic) 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

ACSL5-IN-2 is a ACSL5 inhibitor that reduces the average body weight of diet-induced obese mice. ACSL5-IN-2 can be used for research on obesity [1] [2].

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

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In Vivo, ACSL5-IN-2 (compound B) reduces the average body weight of diet-induced obese mice within 28 days; it decreases blood glucose levels in the OGTT test and antagonizes insulin-induced blood glucose reduction in the ITT test; it reduces the epididymal fat weight and epididymal fat coefficient of mice, with no significant effect on liver or heart weight^[2].

In Vitro, ACSL5-IN-2 exhibits excellent inhibitory activity against ACSL5 and CBA targets, with an IC₅₀ of less than 100 nM^[1].

References:

[1]. Ji N, et al. Smarca degraders and uses thereof. US20230072658A1. USPTO. 2023.

[2]. Levy TB, et al. Compounds and methods of their use. WO2025174957A1. WIPO. 2025.

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