

Product Data Sheet

Product Name: PF-07976016

Cat. No.: GC81482

Chemical Properties

Cas. No. 3059496-70-4

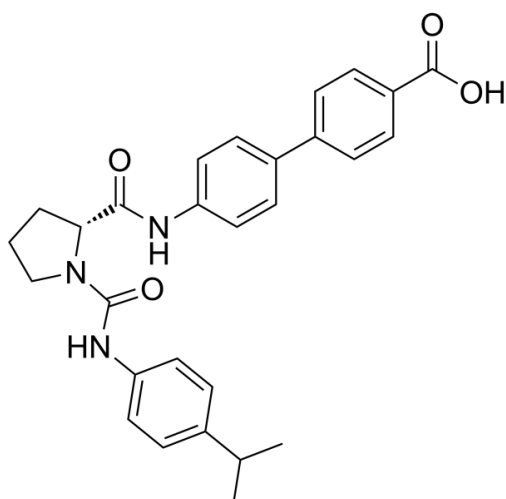
Formula $C_{28}H_{29}N_3O_4$ M.Wt 471.55

Solubility DMSO: 50 mg/mL (106.03 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

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

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PF-07976016 (GIPR antagonist 4) is an orally active GIPR antagonist with an IC_{50} of 4.1 nM. PF-07976016 (GIPR antagonist 4) exerts its antagonistic effect by competitively binding to GIPR and blocking the increase in $G_{\alpha s}$ -mediated cAMP production induced by GIP agonists. The combination of GIPR antagonist 4 and Liraglutide can enhance the weight loss effect of the single drug. PF-07976016 (GIPR antagonist 4) can be used for research related to obesity and metabolic diseases [1].

In Vivo, In hGIPR KI mice fed a high-fat diet, GIPR antagonist 4 (30 mg/kg; oral; once daily; for 20 days) showed better weight loss in combination with Liraglutide (0.05 mg/kg; subcutaneous injection; once daily; for 20 days) than the single drug group^[1].

In Vitro, PF-07976016 (GIPR antagonist 4) (0.1-40 μ M; 2.5 h) showed GIPR antagonistic activity in CHO-K1 cells stably expressing the human GIPR receptor, with an IC_{50} of 4.1 nM.

References:

[1]. Dullea RG, et al. Combination therapy using glucose-dependent insulinotropic polypeptide receptor antagonist compounds and GLP-1 receptor agonist compounds. US20250235460 A1. July 24, 2025.

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