

Product Data Sheet

Product Name: GUB08248 acetate

Cat. No.: GC81562

Chemical Properties

Cas. No.

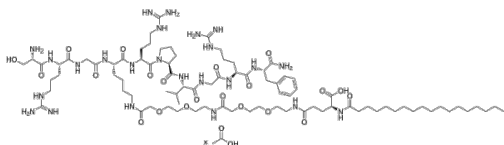
Formula $C_{85}H_{150}N_{24}O_{21} \cdot xC_2H_4O_2$ M.Wt 1844.25

Solubility DMSO: 33.33 mg/mL (Need ultrasonic) Storage Sealed storage, away from moisture

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

GUB08248 acetate is a full GPR10 agonist and a partial NPFF2R agonist, with EC₅₀ values of 0.5 nM and 2.5 nM, respectively. GUB08248 acetate inhibits food intake and induces sustained weight

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

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loss. GUB08248 acetate can be used in obesity-related research [1] [2].

In Vivo, GUB08248 (1250 nmol/kg; s.c.; twice daily) acetate induces robust, sustained body weight loss of 13.5% relative to baseline and transient food intake suppression in diet-induced obese mice^[1].

In Vitro, GUB08248 (30 min) acetate acts as a potent dual full agonist of GPR10 and partial agonist of NPFF2R in Chem-1 cells expressing GPR10 and CHO-K1 cells expressing NPFF2R, with EC₅₀ values of 0.5 nM and 2.5 nM, respectively^[1]. GUB08248 (1 h) acetate potently activates wild-type NPFF2R in HEK293T cells^[2].

References:

- [1]. Alexopoulou F, et al. Lipidated PrRP31 metabolites are long acting dual GPR10 and NPFF2 receptor agonists with potent body weight lowering effect. Sci Rep. 2022;12(1):1696. Published 2022 Feb 1.
- [2]. Li X, et al. Molecular basis for cross-activation of NPFF2R by a short PrRP-related peptide. Acta Pharmacol Sin. Published online February 4, 2026.

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