Product Data Sheet

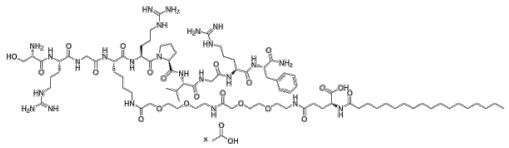
Product Name: GUB08248 acetate
Cat. No.: GC81562

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 EC 50 values of 0.5 nM and 2.5 nM, respectively. GUB08248 acetate inhibits food intake and induces sustained weight

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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 nduces 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.

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