
Product Data Sheet

Product Name: (α R,8aS)-GSK1614343

Cat. No.: GC67681

Chemical Properties

Cas. No. 1092476-84-0

Formula $C_{22}H_{23}F_6N_5O$

M.Wt 487.44

Solubility DMSO : 100 mg/mL (205.15 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**

(α R,8aS)-GSK1614343 (compound 18a, d2) is a cyclized **ghrelin** antagonist with an **pIC₅₀** value of 8.4. (α R,8aS)-GSK1614343 shows a competitive antagonism of hGHSR1a with a mean **pK_b** value of 8.06^[1].

(α R,8aS)-GSK1614343 (0.1-1 μ M) demonstrates a surmountable and competitive antagonism of hGHSR1a with a mean p K_B value of 8.06^[1].

(α R,8aS)-GSK1614343 (10 mg/kg; i.v. once) inhibits GH release induced by exogenous ghrelin administration^[1].

(α R,8aS)-GSK1614343 (i.v. and p.o.) exhibits good oral bioavailability (F=46%), a limited clearance in blood (Cl_b=28 mL/min/kg) and a suitable half-life (5.0 h). In terms of rat brain penetration, a brain to blood AUC

[1]. <https://pubmed.ncbi.nlm.nih.gov/20593439/>

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

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