

Product Data Sheet

Product Name: JV-1-36 acetate

Cat. No.: GC74355

Chemical Properties

Cas. No.

Formula $C_{172}H_{284}ClN_{53}O_{41} \cdot xC_2H_4O_2$ M.Wt 3785.88 (free base)

Solubility H_2O : 100 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

{N-(2-phenylacetyl)}-Tyr-{d-Arg}-Asp-Ala-Ile-{4-Cl-Phe}-Thr-Asn-{Har}-{Tyr(Me)}-Arg-Lys-Val-Leu-{Abu}-Gln-Leu-Ser-Ala-Arg-Lys-Leu-Leu-Gln-Asp-Ile-{Nle}-{d-Arg}-{Har}-NH₂ (acetate salt)

Background

JV-1-36 acetate is a growth hormone-releasing hormone (GHRH) antagonist. JV-1-36 acetate inhibits the production of reactive oxygen species in A549 lung cancer cells. JV-1-36 can be used to study the effect of GHRH antagonists in vitro .

JV-1-36 (0.01-15 μM; 8 h) reduces cell viability in A549 cells at higher concentrations (5-15 μM), and

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(2-15 μ M; 8 h) also decreases cell viability in Hela cells[1]. JV-1-36 (1 μ M; 8 h) significantly reduces the production of ROS induced by H₂O₂ (0.1 mM; 8 h) in A549 lung cancer cells, exerting antioxidant effects[1].

References:

[1]. Kubra KT, et al. Growth Hormone-Releasing Hormone Antagonist JV-1-36 Suppresses Reactive Oxygen Species Generation in A549 Lung Cancer Cells. *Endocrines*. 2022 Dec;3(4):813-820.

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