

Sobetirome

Catalog No: tcsc0956



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg



Specifications

CAS No:

211110-63-3

Formula:

$C_{20}H_{24}O_4$

Pathway:

Others

Target:

Thyroid Hormone Receptor

Purity / Grade:

>98%

Solubility:

DMSO : 9.85 mg/mL (29.99 mM; Need ultrasonic)

Alternative Names:

GC-1; QRX-431

Observed Molecular Weight:

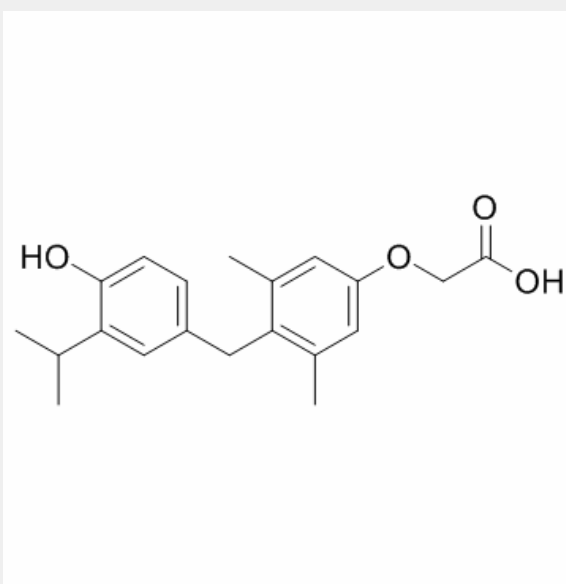
328.4

Product Description

Sobetirome is a thyroid hormone receptor β (**TR β**)-specific agonist which bind selectively to **TR β -1** with an **EC₅₀** of 0.16 μ M.

IC50 & Target: EC50: 0.16 μ M (TR β -1), 0.58 μ M (TR α -1)^[1]

In Vivo: Sobetirome (GC-1) is a thyroid hormone receptor β (TR β)- and liver uptake-selective agonist. Sobetirome (48 nmol/kg) reduces high-density lipoprotein (HDL) cholesterol and very low-density lipoprotein (VLDL) triglyceride levels in euthyroid Mice. Sobetirome reduces HDL cholesterol and triglyceride Levels in hypercholesterolemic mice. Sobetirome increases hepatic HDL receptors and stimulates bile acid synthesis in hypercholesterolemic mice^[2]. Treatment with 10 \times Sobetirome (GC-1) results in a gain of fat mass of only 21% (1.7 g), and treatment with 20 \times Sobetirome (GC-1) induces a decrease in fat mass of 20% (1.3 g)^[3].



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