Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

MGL-3196

Catalog No: tcsc6179

Available Sizes

Size: 2mg

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
920509-32-6

Formula:
$C_{17}H_{12}Cl_2N_6O_4$

Pathway:
Others

Target:
Thyroid Hormone Receptor

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 31 mg/mL (71.23 mM)

Alternative Names:
VIA-3196

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Observed Molecular Weight:
435.22

Product Description

MGL-3196 is a highly selective thyroid hormone receptor β (**THR-β**) agonist with an $\mathbf{EC_{50}}$ value of 0.21 μM.

IC50 & Target: EC50: 0.21 μM (THR-β)[1]

In Vitro: MGL-3196 is 28-fold selective for THR-β (EC_{50}=0.21 μM) over THR-α (EC_{50}=3.74 μM) in a functional assay. MGL-3196 shows an IC_{20} of roughly 30 μM for blockage of the hERG channel. The IC_{50} for CYP3A4/5 and for CYP2C19 is >50 μM, and there is only weak inhibition (roughly 22 μM) of CYP2C9[1].

In Vivo: MGL-3196 exhibits good exposures and reasonable oral bioavailability in rats. The volume of distribution and clearance are both low. Dose proportional increases in exposure are observed for a suspension of MGL-3196 given orally to DIO mice[1].In animals treated with MGL-3196 there is a reduction in cholesterol and in liver size, which is secondary to reduction of liver TG. There is no effect on bone mineral density (BMD) or heart or kidney size in MGL-3196 treated animals[1].