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

TUG-770

Catalog No: tcsc1524

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
1402601-82-4

Formula:
$C_{19}H_{14}FNO_2$

Pathway:
GPCR/G Protein

Target:
GPR40

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
307.32

Product Description

TUG-770 is a highly potent free fatty acid receptor 1 (FFA1/GPR40) agonist with EC50 of 6 nM for hFFA1.

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IC50 Value: 6 nM (hFFA1, EC50) [1]

Target: GPR40

in vitro: TUG-770 (Compound 22) displayed excellent physicochemical and in vitro ADME properties, with good aqueous solubility, good chemical stability, low lipophilicity, and decreased plasma protein binding (PPB). TUG-770 furthermore showed excellent stability toward human liver microsomes (HLM), no inhibition of selected CYP-enzymes implicated in drug-drug interactions, no P-glycoprotein (P-gp) inhibition, and good permeability in the Caco-2 cell assay [1].

in vivo: Examination of TUG-770 in an acute intraperitoneal glucose tolerance test (IPGTT) in normal mice revealed a good dose dependent response with maximal reduction in glucose level reached at 50 mg/kg. The effect of TUG-770 was fully sustained after 29 days of daily oral treatment. Additional evaluation of TUG-770 in rats confirmed a significant glucose lowering effect for the high doses already after 10 min and for all doses after 30 min [1].

Clinical trial: