

# TR antagonist 1

## Catalog No: tcsc0040844



### Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



### Specifications

**CAS No:**

500794-88-7

**Formula:**

$C_{25}H_{23}Br_2NO_4$

**Pathway:**

Others

**Target:**

Thyroid Hormone Receptor

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 83.3$  mg/mL (148.42 mM)

**Observed Molecular Weight:**

561.26

## Product Description

TR antagonist 1 is a high-affinity **thyroid hormone receptor (TR)** antagonist with **IC<sub>50</sub>**s of 36 and 22 nM for TR $\alpha$  and TR $\beta$ ,

respectively.

IC50 & Target: IC50: 36 nM (Thyroid hormone  $\alpha$ ), 22 nM (Thyroid hormone  $\alpha$ )<sup>[1]</sup>

***In Vitro:*** TR antagonist 1 displays high affinity for both thyroid hormone TR $\alpha$  and TR $\beta$  (IC<sub>50</sub>=36 and 22 nM, respectively). TR antagonist 1 acts as a full antagonist in the TRAFR cell assay and the IC<sub>50</sub> 32 nM for both TRAF $\alpha$ 1 and TRAF $\beta$ 1<sup>[1]</sup>.

***In Vivo:*** TR antagonist 1 treatment lowers heart rate and shows a possible trend toward an increase of low-density lipoprotein cholesterol (LDL-C) in the cholesterol fed rat model<sup>[1]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!