

# ML224

Catalog No: tcsc3824



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

1338824-21-7

**Formula:**

$C_{31}H_{31}N_3O_5$

**Pathway:**

GPCR/G Protein

**Target:**

TSH Receptor

**Purity / Grade:**

>98%

**Solubility:**

DMSO : 100 mg/mL (190.26 mM; Need ultrasonic); H2O :

**Alternative Names:**

NCGC00242364;ANTAG3

**Observed Molecular Weight:**

525.59

## Product Description

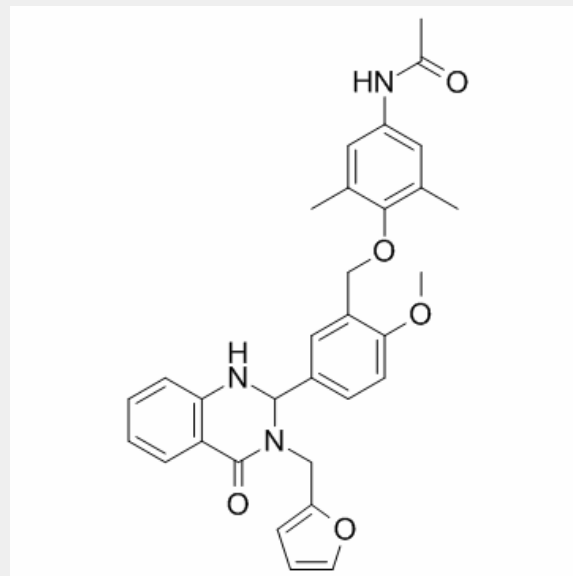
ML224(NCGC00242364; ANTAG3) is a selective TSHR inverse agonist; inhibits TSH-stimulated cAMP production with an IC<sub>50</sub> = 2.3 μM.

IC<sub>50</sub> value: 2.3 μM [1]

Target: TSHR agonist

in vitro: ANTAG3 was selective for TSHR inhibition; half-maximal inhibitory doses were 2.1 μM for TSHR and greater than 30 μM for LH and FSH receptors [2].

in vivo: In mice treated with TRH, ANTAG3 lowered serum free T4 by 44% and lowered mRNAs for sodium-iodide cotransporter and thyroperoxidase by 75% and 83%, respectively. In mice given M22, ANTAG3 lowered serum free T4 by 38% and lowered mRNAs for sodium-iodide cotransporter and thyroperoxidase by 73% and 40%, respectively [2].



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