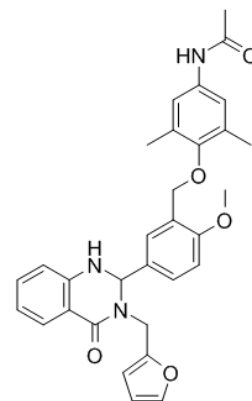


Product Name : ML224
Cat. No. : PC-43013
CAS No. : 1338824-21-7
Molecular Formula : C₃₁H₃₁N₃O₅
Molecular Weight : 525.5949
Target : Thyrotropin Receptor
Solubility : 10 mM in DMSO



Biological Activity

ML224 (NCGC00242364, ANTAG3) is a potent selective thyroid stimulating hormone receptor (**TSHR**) inverse agonist, selectively inhibits TSH-stimulated cAMP production with IC₅₀ of 2.3 μM.

ML224 (NCGC00242364, ANTAG3) inhibits TSHR basal activity with IC₅₀ of 6.0 μM, displays >20-fold selectivity over LHR and FSHR.

ML224 (NCGC00242364, ANTAG3) inhibits stimulation of thyroid function in female mice.

ML224 (NCGC00242364, ANTAG3) is a potential lead for development of drugs to treat TSHR-mediated hyperthyroidism caused by constitutively activating mutations or stimulating auto-antibodies associated with Graves' disease.

References

Neumann S, et al. *Endocrinology*. 2014 Jan;155(1):310-4.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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