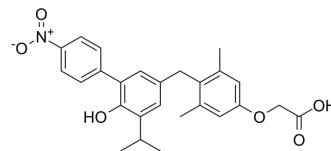


GC 14

Cat. No.:	HY-111442
CAS No.:	447415-34-1
Molecular Formula:	C ₂₆ H ₂₇ NO ₆
Molecular Weight:	449.5
Target:	Thyroid Hormone Receptor
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	GC 14 is a selective thyroid hormone receptor antagonist, with IC ₅₀ values of 35 nM and 200 nM for hTRβ and hTRα, respectively.
IC ₅₀ & Target	IC ₅₀ : 35 nM (hTRβ), 200 nM (hTRα) ^{[1][2]} .
In Vitro	GC 14 contains extensions at the 5'-position of the outer thyronine ring or from the bridging carbon and has only a modest affinity and potency for the thyroid hormone receptor (TR) that limits studies of their antagonistic actions ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Koehler K, et al. Thyroid receptor ligands. 6. A high affinity "direct antagonist" selective for the thyroid hormone receptor. *J Med Chem.* 2006 Nov 16;49(23):6635-7.
- [2]. Chiellini G, et al. Synthesis and biological activity of novel thyroid hormone analogues: 5'-aryl substituted GC-1 derivatives. *Bioorg Med Chem.* 2002 Feb;10(2):333-46.
- [3]. Nguyen NH, et al. Rational design and synthesis of a novel thyroid hormone antagonist that blocks coactivator recruitment. *J Med Chem.* 2002 Jul 18;45(15):3310-20.

Caution: Product has not been fully validated for medical applications. For research use only.

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