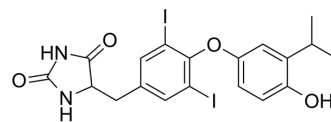


CO23

Cat. No.:	HY-130012		
CAS No.:	1370363-74-8		
Molecular Formula:	C ₁₉ H ₁₈ I ₂ N ₂ O ₄		
Molecular Weight:	592.17		
Target:	Thyroid Hormone Receptor		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (422.18 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.6887 mL	8.4435 mL	16.8870 mL
5 mM	0.3377 mL	1.6887 mL	3.3774 mL
10 mM	0.1689 mL	0.8444 mL	1.6887 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

CO23 is a selective thyroid hormone receptor (TR) α agonist and used for growth and development regulation. CO23 was able to be transported through the blood-brain barrier^[1].

IC₅₀ & Target

TR α ^[1]

In Vivo

CO23 (ip; 0.04-5.0 nmol/g) has \approx 50% cholesterol reduction with 0.8 nmol/g dose and higher doses are equally effective. CO23 has no effect at the lowest dose of 0.04 nmol/g and increases Dio1 mRNA 5-, 10-, and 15-fold at the doses of 0.8, 2.5, and 5 nmol/g, respectively^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Hypothyroid Wistar rats ^[1]
Dosage:	0.04, 0.8, 2.5, and 5.0 nmol/g

Administration:	Ip
Result:	Had ≈50% cholesterol reduction with 0.8 nmol/g dose and higher doses were equally effective.

REFERENCES

[1]. Grijota-Martínez C, et al. In vivo activity of the thyroid hormone receptor beta- and α -selective agonists GC-24 and CO23on rat liver, heart, and brain. *Endocrinology*. 2011 Mar;152(3):1136-42.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA