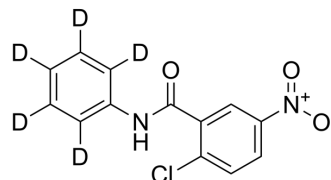


GW9662-d₅

Cat. No.:	HY-16578S
CAS No.:	2117730-84-2
Molecular Formula:	C ₁₃ H ₄ D ₅ ClN ₂ O ₃
Molecular Weight:	281.71
Target:	PPAR; Isotope-Labeled Compounds
Pathway:	Cell Cycle/DNA Damage; Vitamin D Related/Nuclear Receptor; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	GW9662-d ₅ is the deuterium labeled GW9662. GW9662 is a potent and selective PPAR _γ antagonist with an IC ₅₀ of 3.3 nM, showing 10 and 1000-fold selectivity over PPAR _α and PPAR _δ , respectively[1][2].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Sato K, et al. PPAR_γ antagonist attenuates mouse immune-mediated bone marrow failure by inhibition of T cell function. *Haematologica*. 2016 Jan;101(1):57-67.
- [3]. Seargent JM, et al. GW9662, a potent antagonist of PPAR_γ, inhibits growth of breast tumor cells and promotes the anticancer effects of the PPAR_γ agonist BRL 49653, independently of PPAR_γ activation. *Br J Pharmacol*. 2004 Dec;143(8):933-7.
- [4]. Collino M, et al. The selective PPAR_γ antagonist GW9662 reverses the protection of LPS in a model of renal ischemia-reperfusion. *Kidney Int*. 2005 Aug;68(2):529-36.
- [5]. Leesnitzer LM, et al. Functional consequences of cysteine modification in the ligand binding sites of peroxisome proliferator activated receptors by GW9662. *Biochemistry*. 2002 May 28;41(21):6640-50.

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