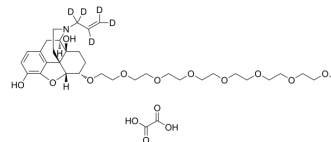


Naloxegol-d5 oxalate

Cat. No.:	HY-A0118AS
Molecular Formula:	C ₃₆ H ₅₀ D ₅ NO ₁₅
Molecular Weight:	746.85
Target:	Opioid Receptor; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Naloxegol-d ₅ (oxalate) is deuterium labeled Naloxegol (oxalate). Naloxegol oxalate (NKTR-118 oxalate; AZ-13337019 oxalate) is a μ -opioid-receptor antagonist. Naloxegol oxalate inhibits opioid binding in μ -opioid receptors in the gastrointestinal tract and effective for alleviating opioid-induced constipation[1][2].
IC₅₀ & Target	μ Opioid Receptor/MOR
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]. Garnock-Jones KP, et al. Naloxegol: a review of its use in patients with opioid-induced constipation. *Drugs.* 2015 Mar;75(4):419-25.
- [3]. Yoon SC, et al. Naloxegol in opioid-induced constipation: a new paradigm in the treatment of a common problem. *Patient Prefer Adherence.* 2017 Jul 24;11:1265-1271.

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

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