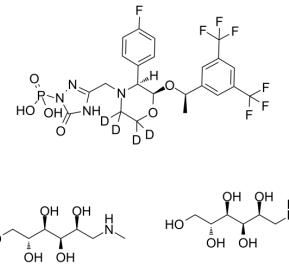
Fosaprepitant-d4 dimeglumine

Cat. No.:	HY-14407AS
Molecular Formula:	$C_{37}H_{52}D_4F_7N_6O_{16}P$
Molecular Weight:	1008.86
Target:	Neurokinin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Fosaprepitant-d4 (dimeglumine) is deuterium labeled Fosaprepitant (dimeglumine). Fosaprepitant dimeglumine (MK-0517) is a prodrug of Aprepitant (HY-10052). Fosaprepitant dimeglumine is a neurokinin-1 receptor antagonist, which is development for the prevention of chemotherapy-induced nausea and vomiting (CINV)[1].
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]. Pranav Prasoon, et al. Role of fosaprepitant, a neurokinin Type 1 receptor antagonist, in morphine-induced antinociception in rats. Indian J Pharmacol. 2016 Jul-Aug; 48(4): 394-398.

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

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