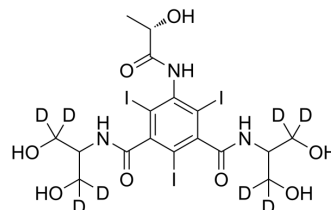


Iopamidol-d8

Cat. No.:	HY-B0684S
CAS No.:	1795778-90-3
Molecular Formula:	C ₁₇ H ₁₄ D ₈ I ₃ N ₃ O ₈
Molecular Weight:	785.13
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Iopamidol-d8 (B-15000-d8) is the deuterium labeled Iopamidol. Iopamidol is a nonionic, X-Ray iodinated contrast agent (CA) for a wide variety of diagnostic applications. Iopamidol contains amide and hydroxyl functionalities that can be exploited for the generation of the chemical exchange saturation transfer (CEST) contrast ^[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]. Longo DL, et, al. Iopamidol as a responsive MRI-chemical exchange saturation transfer contrast agent for pH mapping of kidneys: In vivo studies in mice at 7 T. *Magn Reson Med.* 2011 Jan;65(1):202-11.

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

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