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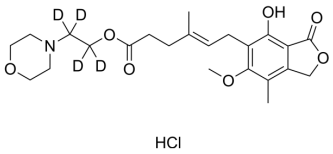
Mycophenolate Mofetil-d_4 hydrochloride

Cat. No.:	HY-B0199AS
Molecular Formula:	$C_{23}H_{28}D_4ClNO_7$
Molecular Weight:	473.98
Target:	Bacterial; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Anti-infection; Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Mycophenolate Mofetil-d_4 hydrochloride is deuterated labeled Mycophenolate mofetil hydrochloride (HY-B0199A). Mycophenolate mofetil (RS 61443) hydrochloride is a immunosuppressant, a non-competitive, selective and reversible inhibitor of inosine monophosphate dehydrogenase (IMPD) type I/II with IC_{50}s of 39 nM and 27 nM, respectively.
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]. Nakanishi, T., et al., Effect of the inosine 5'-monophosphate dehydrogenase inhibitor BMS-566419 on rat cardiac allograft rejection. Int Immunopharmacol, 2010. 10(1): p. 91-7.

[2]. Dehghani, F., et al., Inhibition of microglial and astrocytic inflammatory responses by the immunosuppressant mycophenolate mofetil. Neuropathol Appl Neurobiol, 2010. 36(7): p. 598-611.

[3]. Ozgen, M., et al., Mycophenolate mofetil and daclizumab targeting T lymphocytes in bleomycin-induced experimental scleroderma. Clin Exp Dermatol, 2012. 37(1): p. 48-54.

[4]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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