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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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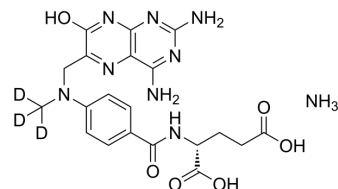
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7-Hydroxy methotrexate-d₃ ammonium salt

Cat. No.:	HY-W654227
Molecular Formula:	C ₂₀ H ₂₂ D ₃ N ₉ O ₆
Molecular Weight:	490.49
Target:	Isotope-Labeled Compounds; Drug Metabolite
Pathway:	Others; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

7-Hydroxy methotrexate-d₃ (ammonium salt) is deuterium labeled 7-Hydroxymethotrexate. 7-Hydroxymethotrexate is a major metabolite of Methotrexate (MTX; HY-14519). Methotrexate, an antimetabolite and antifolate agent, inhibits the enzyme dihydrofolate reductase, thereby preventing the conversion of folic acid into tetrahydrofolate, and inhibiting DNA synthesis^{[1][2][3]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. L Fahrig, et al. Pharmacokinetics of methotrexate (MTX) and 7-hydroxymethotrexate (7-OH-MTX) in rats and evidence for the metabolism of MTX to 7-OH-MTX. *Cancer Chemother Pharmacol*. 1989;23(3):156-60.
- [3]. Ping Guo, et al. Determination of methotrexate and its major metabolite 7-hydroxymethotrexate in mouse plasma and brain tissue by liquid chromatography-tandem mass spectrometry. *J Pharm Biomed Anal*. 2007 Apr 11;43(5):1789-95.

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

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