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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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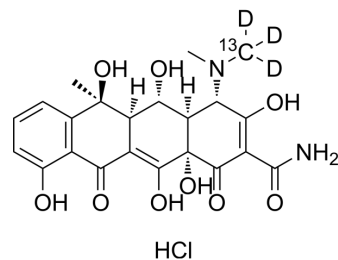
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Oxytetracycline-¹³C,₃D₃ hydrochloride

Cat. No.:	HY-W755036
Molecular Formula:	C ₂₁ ¹³ CH ₂₂ D ₃ ClN ₂ O ₉
Molecular Weight:	500.91
Target:	Isotope-Labeled Compounds; Bacterial; HSV; Antibiotic
Pathway:	Others; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Oxytetracycline-¹³C,₃D₃ hydrochloride is the ¹³C- and deuterium labeled Oxytetracycline hydrochloride (HY-B0275A). Oxytetracycline hydrochloride is an antibiotic that exhibits broad-spectrum antibacterial activity. Oxytetracycline hydrochloride is a protein synthesis inhibitor and prevents the binding from aminoacyl-tRNA to the complex m-ribosomal RNA. Oxytetracycline hydrochloride also possesses anti-HSV-1 activity^{[1][2][3][4]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Elia AC, et al. Transferability of oxytetracycline (OTC) from feed to carp muscle and evaluation of the antibiotic effects on antioxidant systems in liver and kidney. *Fish Physiol Biochem*. 2014 Aug;40(4):1055-68.
- [3]. Pickens LB, et al. Oxytetracycline biosynthesis. *J Biol Chem*. 2010 Sep 3;285(36):27509-15.
- [4]. Oguz Guvenmez, et al. A New Treatment Method for Herpes Simplex Virus Type 1-related Skin Lesions. *Scientific & Academic*. 2019; 8(1): 6-8.

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

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