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Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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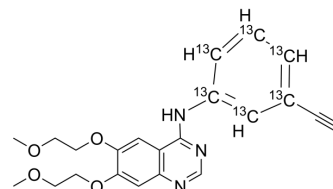
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Erlotinib-¹³C₆

Cat. No.:	HY-50896S1
CAS No.:	1211107-68-4
Molecular Formula:	C ₁₆ ¹³ C ₆ H ₂₃ N ₃ O ₄
Molecular Weight:	399.39
Target:	EGFR; Autophagy; Isotope-Labeled Compounds
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Autophagy; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Erlotinib- ¹³ C ₆ is a ¹³ C-labeled Erlotinib. Erlotinib is a directly acting EGFR tyrosine kinase inhibitor, with an IC ₅₀ of 2 nM for human EGFR[1].
In Vitro	Erlotinib reduces EGFR autophosphorylation in intact tumor cells with an IC₅₀ of 20 nM. Erlotinib is used for the treatment of non-small cell lung cancer^[1]. 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^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Moyer JD, et al. Induction of apoptosis and cell cycle arrest by CP-358,774, an inhibitor of epidermal growth factor receptor tyrosine kinase. *Cancer Res.* 1997, 57(21), 4838-4848.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.

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

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