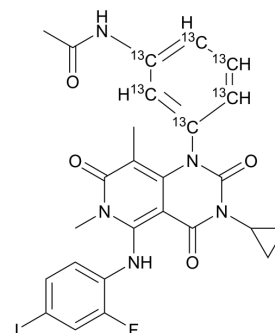


Trametinib-¹³C₆

Cat. No.:	HY-10999S1
Molecular Formula:	C ₂₀ ¹³ C ₆ H ₂₃ FIN ₅ O ₄
Molecular Weight:	621.35
Target:	MEK; Autophagy; Apoptosis
Pathway:	MAPK/ERK Pathway; Autophagy; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Trametinib- ¹³ C ₆ is the ¹³ C-labeled Trametinib. Trametinib (GSK1120212; JTP-74057) is an orally active MEK inhibitor that inhibits MEK1 and MEK2 with IC50s of about 2 nM. Trametinib activates autophagy and induces apoptosis[1][2].
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.

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- [3]. Yamaguchi T, et al. Antitumor activities of JTP-74057 (GSK1120212), a novel MEK1/2 inhibitor, on colorectal cancer cell lines in vitro and in vivo. *Int J Oncol*, 2011, 39(1), 23-31.
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Caution: Product has not been fully validated for medical applications. For research use only.

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