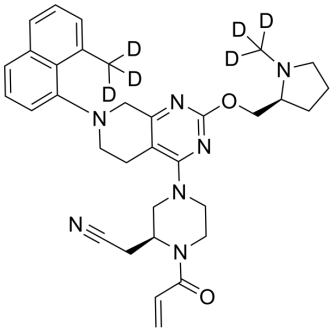
MRTX-1257-d_6

Cat. No.:	HY-114436S
CAS No.:	2639608-44-7
Molecular Formula:	$C_{33}H_{33}D_6N_7O_2$
Molecular Weight:	571.75
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MRTX-1257-d_6 is the deuterium labeled MRTX-1257 (HY-114436). MRTX-1257 is a selective, irreversible, covalent and orally active KRAS G12C inhibitor, with an IC_{50} of 900 pM for KRAS dependent ERK phosphorylation in H358 cells[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.

REFERENCES

[1]. Matthew et al. Structure-Based Drug Discovery of MRTX1257, a Selective, Covalent KRAS G12C Inhibitor with Oral Activity in Animal Models of Cancer.

[2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-220.

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