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Produktinformation



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Zuschläge

- Mindermengenzuschlag
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- Expressversand

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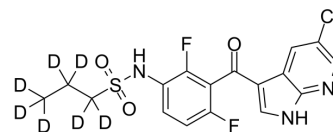
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PLX-4720-d7

Cat. No.:	HY-51424S
CAS No.:	1304096-50-1
Molecular Formula:	C ₁₇ H ₇ D ₇ ClF ₂ N ₃ O ₃ S
Molecular Weight:	420.87
Target:	Raf
Pathway:	MAPK/ERK Pathway
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PLX-4720-d7 is the deuterium labeled PLX-4720. PLX-4720 is a potent and selective inhibitor of B-Raf ^{V600E} with an IC ₅₀ of 13 nM in a cell-free assay, equally potent to c-Raf-1(Y340D and Y341D mutations), and 10-fold selectivity for B-Raf ^{V600E} than wild-type B-Raf ^{[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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.
- [2]. Tsai J, et al. Discovery of a selective inhibitor of oncogenic B-Raf kinase with potent antimelanoma activity. Proc Natl Acad Sci U S A, 2008, 105(8), 3041-3046.
- [3]. Paraiso KH, et al. PTEN loss confers BRAF inhibitor resistance to melanoma cells through the suppression of BIM expression. Cancer Res, 2011, 71(7), 2750-2760.
- [4]. Nucera C, et al. B-Raf(V600E) and thrombospondin-1 promote thyroid cancer progression. Proc Natl Acad Sci U S A, 2010, 107(23), 10649-10654.
- [5]. Rizzolio S, et al. Neuropilin-1 upregulation elicits adaptive resistance to oncogene-targeted therapies. J Clin Invest. 2018 Aug 31;128(9):3976-3990.

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

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