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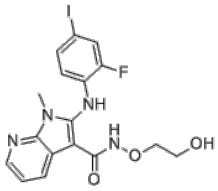
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	NFX-179
Cat. No.	:	PC-21237
CAS No.	:	2252314-46-6
Molecular Formula	:	$C_{17}H_{16}FIN_4O_3$
Molecular Weight	:	470.24
Target	:	MEK (MAP2K)
Solubility	:	10 mM in DMSO



CAS: 2252314-46-6

Biological Activity

NFX-179 (Nedometinib, NFX179) is a potent, specific, topical, metabolically labile **MEK1/2** inhibitor with biochemical IC50 of 135 nM (MEK1).
NFX-179 is specific for MEK1 inhibition and does not have substantial interactions across a panel of more than 150 kinases or a separate panel of 44 targets of particular relevance for neurological or cardiac toxicity.
NFX-179 potently inhibits phosphorylated-ERK (p-ERK) expression in a malignant peripheral nerve sheath tumor cell line HCT116 (KRAS-mutant G13D) and A375 (BRAF-mutant V600E) with IC50 of 164 nM and 12 nM, respectively.
NFX-179 gel (topical application) significantly reduced the formation of new cSCCs in ultraviolet-induced cSCC mouse models.
NFX-179 inhibits the growth of human SCC cell lines in a dose-dependent manner, and topical NFX-179 application penetrates human skin and inhibits MAPK signaling in human cutaneous squamous cell carcinoma (cSCC) explants.

References

Sarin KY, et al. ***Sci Transl Med***. 2023 Oct 11;15(717):eade1844.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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