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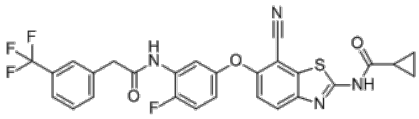
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	TAK-632
Cat. No.	:	PC-72530
CAS No.	:	1228591-30-7
Molecular Formula	:	$C_{27}H_{18}F_4N_4O_3S$
Molecular Weight	:	554.520
Target	:	Raf
Solubility	:	100 mM in DMSO (55.4 mg/mL)



Biological Activity

TAK-632 (TAK632) is a potent, selective **pan-RAF** inhibitor with IC50 of 1.4, 2.4 and 8.3 nM for CRAF, BRAF V600E and BRAF WT, respectively.
TAK-632 suppresses RAF activity in BRAF wild-type cells with minimal RAF paradoxical activation.
TAK-632 induces RAF dimerization but inhibits the kinase activity of the RAF dimer.
TAK-632 demonstrates potent antiproliferative effects both on NRAS-mutated melanoma cells and BRAF-mutated melanoma cells with acquired resistance to BRAF inhibitors through NRAS mutation or BRAF truncation.
TAK-632 exhibits synergistic antiproliferative effects combined with MEK inhibitor TAK-733.
TAK-632 also is a selective RIPK3 inhibitor (RIPK3 Kd =81 nM), > 60-fold selectivity against RIPK3 than RIPK1.

References

Nakamura A, et al. ***Cancer Res***. 2013 Dec 1;73(23):7043-55.

Grasso M, et al. ***J Med Chem***. 2018 Jun 14;61(11):5034-5046.

Chen X, et al. ***Br J Pharmacol***. 2019 Jun;176(12):2095-2108.

Abt ER, et al. ***Cell Chem Biol***. 2020 Feb 20;27(2):197-205.e6.

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

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