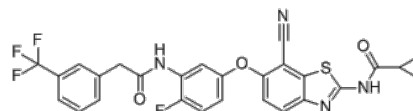


**Product Name** : TAK-632  
**Cat. No.** : PC-72530  
**CAS No.** :  
**Molecular Formula** : C<sub>27</sub>H<sub>18</sub>F<sub>4</sub>N<sub>4</sub>O<sub>3</sub>S  
**Molecular Weight** : 554.520  
**Target** : Raf  
**Solubility** :



## Biological Activity

TAK-632 (TAK632) is a potent, selective pan-RAF inhibitor with IC<sub>50</sub> 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 K<sub>d</sub> =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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