

Data Sheet

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 Product Name
 : AD80

 Cat. No.
 : PC-35268

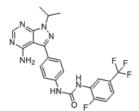
 CAS No.
 : 1384071-99-1

 Molecular Formula
 : C22H19F4N7O

 Molecular Weight
 : 473.436

Target : RET Tyrosine Kinase (c-RET)

Solubility : 10 mM in DMSO



Biological Activity

AD80 is a **multikinase** inhibitor that shows strong activity against human **RET** (IC50=4 nM), BRAF, S6K, and SRC, but has greatly reduced mTOR activity.

AD80 inhibits S6K1 and suppress oncogenic function downstream of a transforming mutant of the receptor tyrosine kinase Ret

AD80 demonstrates selective cytotoxicity for PTEN-deficient cells established S6K1 as part of a kinase targeting portfolio for in vitro and in vivo cytotoxic therapy of PTEN-deficient cancers.

AD80 inhibits proliferation of MZ-CRC-1 and TT thyroid cancer cells in culture, also promotes enhanced tumour growth inhibition and reduced body-weight modulation relative to vandetanib in a mouse xenograft model.

References

Plenker D, et al. *Sci Transl Med*. 2017 Jun 14;9(394). pii: eaah6144.

Liu H, et al. *Cell Rep*. 2017 Feb 28;18(9):2088-2095.

Dar AC, et al. *Nature*. 2012 Jun 6;486(7401):80-4.

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

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