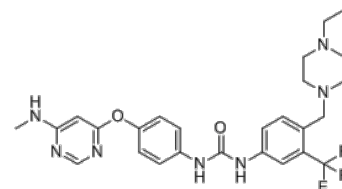


Product Name : NVP-AST487
Cat. No. : PC-61590
CAS No. : 630124-46-8
Molecular Formula : C₂₆H₃₀F₃N₇O₂
Molecular Weight : 529.56
Target : RET Tyrosine Kinase (c-RET)
Solubility :



Biological Activity

NVP-AST487 (AST487) is a potent, oral bioavailable **RET kinase** inhibitor with IC₅₀ of 0.88 μM, also inhibits KDR, Flt-4, Flt-3, c-Kit and c-Abl in vitro (IC₅₀=0.1-1.2 μM); displays little to no activity against EGFR, HER2, PDK1 and PKB (IC₅₀>5 μM); inhibits RET autophosphorylation and activation of PLCγ and ERK, inhibits the growth of thyroid cancer cell lines with activating mutations of RET (RET C634W, IC₅₀= 5 nM); inhibits the growth of NIH3T3-RET^{C634W} xenografts in mice.

References

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Weisberg E, et al. *Blood.* 2008 Dec 15;112(13):5161-70.

Andreucci E, et al. *Oncotarget.* 2016 Dec 6;7(49):80543-80553.

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

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