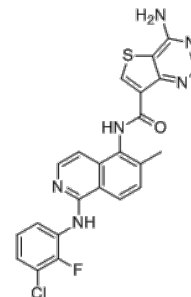


Product Name : Belvarafenib
Cat. No. : PC-61364
CAS No. : 1446113-23-0
Molecular Formula : C₂₃H₁₆ClFN₆OS
Molecular Weight : 478.93
Target : Raf
Solubility : 10 mM in DMSO



Biological Activity

Belvarafenib (HM95573, GDC-5573) is a potent, selective **RAF inhibitor** with IC₅₀ of 41 nM, 7 nM and 2 nM for BRAF WT, BRAF V600E and CRAF, respectively.

Belvarafenib (HM95573, GDC-5573) inhibits cell proliferation of A375 (BRAF V600E) and SK-MEL-30 (NRAS Q61K) with IC₅₀ of 57 and 24 nM, also inhibits the phosphorylations of MEK and ERK downstream kinases in mutant BRAF and mutant NRAS melanoma cells.

Belvarafenib (HM95573, GDC-5573) shows the excellent antitumor activity in mouse models xenografted with both of BRAF mutation cell lines (e.g. A375 and SK-MEL-28) and NRAS mutation cell lines.

References

InHwan Bae, et al. Antitumor activity of the selective RAF inhibitor HM95573 in melanoma. **AACR** 2015. DOI: 10.1158/1538-7445.AM2015-2606

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

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