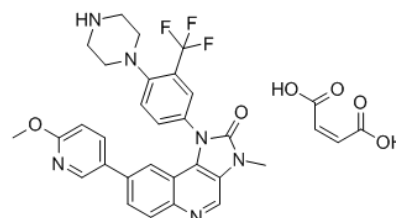


Product Name : NVP-BGT226
Cat. No. : PC-43503
CAS No. : 1245537-68-1
Molecular Formula : C₃₂H₂₉F₃N₆O₆
Molecular Weight : 650.60
Target : PI3K
Solubility : 10 mM in DMSO



Biological Activity

NVP-BGT226 (BGT226) is a potent, dual **PI3K/mTOR** inhibitor with a preference for PI3K α (wild type and mutated) and mTOR (PI3K α , PI3K β and PI3K γ , IC₅₀=4, 63 and 38 nM).

NVP-BGT226 displays potent antiproliferative activity against various human head and neck cancer cell lines in vitro (IC₅₀=7.4-30.1 nM).

NVP-BGT226 downregulates the expression levels of the downstream proteins p-p70S6K and p-4E-BP1 in cells, induces cell-cycle arrest at the G₀-G₁ phase at 60 nM.

NVP-BGT226 significantly delays tumor growth in a dose-dependent manner, along with suppressed cytoplasmic expression of p-p70S6K and the presence of autophagosome formation in xenografted animal models.

References

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Chang KY, et al. *Clin Cancer Res*. 2011 Nov 15;17(22):7116-26.
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Caution: Product has not been fully validated for medical applications. Lab Use Only!

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