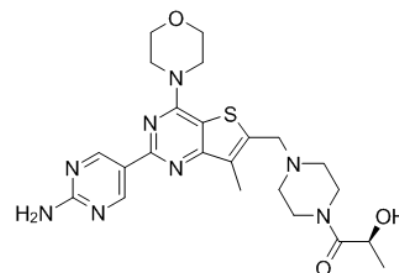


**Product Name** : GDC-0980  
**Cat. No.** : PC-43426  
**CAS No.** : 1032754-93-0  
**Molecular Formula** : C<sub>23</sub>H<sub>30</sub>N<sub>8</sub>O<sub>3</sub>S  
**Molecular Weight** : 498.6011  
**Target** : PI3K  
**Solubility** : 10 mM in DMSO



## Biological Activity

GDC-0980 (Apatolisib, GNE 390, RG 7422) is a potent, selective, orally available class I **PI3K/mTOR** inhibitor with IC<sub>50</sub> of 5 nM/27 nM/7 nM/14 nM for PI3K $\alpha/\beta/\delta/\gamma$ , inhibits mTOR inhibitor with K<sub>i</sub> of 17 nM.

GDC-0980 displays remarkably selectivity for several other members of the closely related PIKK family kinases, including C2 $\alpha$ , C2 $\beta$ , VPS34 I, PI4K $\alpha$ , PI4K $\beta$  and DNA-PK.

GDC-0980 potently inhibits signal transduction downstream of both PI3K and mTOR, reduces viability in multiple cancer cell lines by cell-cycle inhibition and induction of apoptosis (prostate IC<sub>50</sub> < 200 nM, NSCLC lines < 200 nM).

GDC-0980 potently inhibits tumor growth in xenograft models with activated PI3K, loss of LKB1 or PTEN.

## References

Wallin JJ, et al. *Mol Cancer Ther.* 2011 Dec;10(12):2426-36.

Sutherland DP, et al. *J Med Chem.* 2011 Nov 10;54(21):7579-87.

Spoerke JM, et al. *Clin Cancer Res.* 2012 Dec 15;18(24):6771-83. et al.

Makhov PB, et al. *Mol Cancer Ther.* 2012 Jul;11(7):1510-7.

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

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