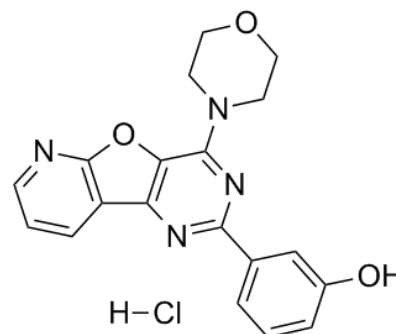


**Product Name** : PI-103 hydrochloride  
**Cat. No.** : PC-42329  
**CAS No.** : 371935-79-4  
**Molecular Formula** : C<sub>19</sub>H<sub>17</sub>ClN<sub>4</sub>O<sub>3</sub>  
**Molecular Weight** : 384.8163  
**Target** : PI3K  
**Solubility** : DMSO: 4.1 mg/mL; H<sub>2</sub>O: < 4 mg/mL



## Biological Activity

PI-103 hydrochloride is a potent, dual class I **PI3K/mTOR** inhibitor with IC<sub>50</sub> of 2/3/3/15/ for p110α/β/δ/γ, respectively. PI-103 also inhibits TORC1 (>80% inhibition at 0.5 μM) and DNA-PK (IC<sub>50</sub>=14 nM), 15- to 20-fold less activity against class II PI3K C2β (IC<sub>50</sub>=43 nM), >1,300-fold selectivity over the class III PI3K Vsp34. PI-103 potently inhibits proliferation and invasion of a wide variety of human cancer cells in vitro; shows activity in cancer xenograft models.

## References

- Fan QW, et al. *Cancer Cell*. 2006 May;9(5):341-9.  
 Raynaud FI, et al. *Cancer Res*. 2007 Jun 15;67(12):5840-50.  
 Fan QW, et al. *Cancer Res*. 2007 Sep 1;67(17):7960-5.  
 Kojima K, et al. *Leukemia*. 2008 Sep;22(9):1728-36.

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

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