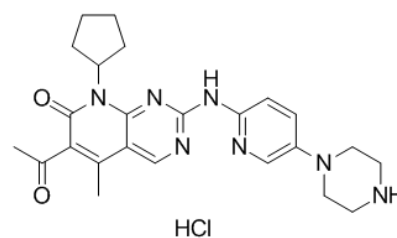


**Product Name** : Palbociclib hydrochloride  
**Cat. No.** : PC-45863  
**CAS No.** : 827022-32-2  
**Molecular Formula** : C<sub>24</sub>H<sub>30</sub>ClN<sub>7</sub>O<sub>2</sub>  
**Molecular Weight** : 483.9937  
**Target** : Cyclin-dependent Kinase (CDK)  
**Solubility** : DMSO: 6 mg/mL (Need ultrasonic or warming)



## Biological Activity

A potent and selective inhibitor of CDK4/6 with IC<sub>50</sub> of 11 nM/16 nM; no inhibition for CDK2A (IC<sub>50</sub>>5 μM); inhibits MDA-MB453 cells with IC<sub>50</sub> of 0.16 μM; shows antiproliferative effect against retinoblastoma (Rb)-positive tumor cells in vitro and reduces the phospho-Ser780/Ser795 on the Rb protein; orally bioavailable.

Breast Cancer

Approved

## References

Toogood PL, et al. J Med Chem. 2005 Apr 7;48(7):2388-406.

Fry DW, et al. Mol Cancer Ther. 2004 Nov;3(11):1427-38.

Baughn LB, et al. Cancer Res. 2006 Aug 1;66(15):7661-7.

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

E-mail: tech@probechem.com