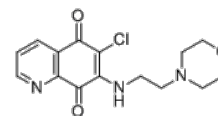


**Product Name** : DA3003-1  
**Cat. No.** : PC-62679  
**CAS No.** : 383907-43-5  
**Molecular Formula** : C<sub>15</sub>H<sub>16</sub>ClN<sub>3</sub>O<sub>3</sub>  
**Molecular Weight** : 321.8  
**Target** : Protein Phosphatase/PTP  
**Solubility** : 10 mM in DMSO



## Biological Activity

NSC 663284 (SPS8I1, DA3003-1) is a potent inhibitor of the dual specificity protein phosphatase **Cdc25** with Ki of 9/95//89 nM for Cdc25A/Cdc25B2/Cdc25C, also inhibits **NSD2** catalytic SET domain with IC50/Ki of 170/370 nM.

NSC 663284 displays 20- and 450-fold more selective over VHR or PTP1B phosphatases.

NSC 663284 (SPS8I1, DA3003-1) blocks cellular Erk dephosphorylation caused by ectopic Cdc25A expression.

NSC 663284 (SPS8I1, DA3003-1) also shows to be a potent and selective **SETD8** inhibitor with apparent IC50 of 0.21 uM.

NSC 663284 (SPS8I1, DA3003-1) shows 2.5-fold lower than SMYD2, >6-fold lower than other PMTs (IC50=1.3-100 uM).

## References

Lazo JS, et al. *J Med Chem.* 2001 Nov 22;44(24):4042-9.

Pu L, et al. *J Biol Chem.* 2002 Dec 6;277(49):46877-85.

Blum G, et al. *ACS Chem Biol.* 2014 Nov 21;9(11):2471-8.

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

E-mail: tech@probechem.com