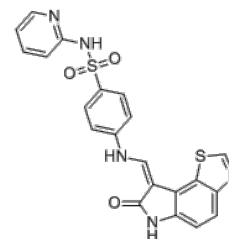


**Product Name** : GW-8510  
**Cat. No.** : PC-70170  
**CAS No.** : 222036-17-1  
**Molecular Formula** : C<sub>21</sub>H<sub>15</sub>N<sub>5</sub>O<sub>3</sub>S<sub>2</sub>  
**Molecular Weight** : 449.51  
**Target** : Cyclin-dependent Kinase (CDK)  
**Solubility** : 10 mM in DMSO



## Biological Activity

GW-8510 (GW8510) is a potent, selective inhibitor of **CDK2** with IC<sub>50</sub> of 10 nM.

GW-8510 displays weak inhibition for CDK1 and CDK4 (IC<sub>50</sub>=110 and 130 nM, respectively) in vitro biochemical assays.

GW-8510 only inhibits CDK5 on cultured neurons; downregulates the expression of XIAP and no detectable effect on the expression of Bax, Bak, or Bcl2.

GW-8510 also demonstrates neuroprotective ability in MN9D cells in the presence of 1-methyl-4-phenylpyridium (MPP(+)).

## References

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Davis ST, et al. *Science*. 2001 Jan 5;291(5501):134-7. Retraction. [Science. 2002]

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

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