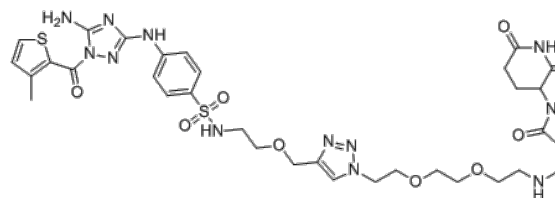


**Product Name** : CDK2 degrader CPS2  
**Cat. No.** : PC-49057  
**CAS No.** : 2756741-90-7  
**Molecular Formula** : C<sub>38</sub>H<sub>42</sub>N<sub>12</sub>O<sub>10</sub>S<sub>2</sub>  
**Molecular Weight** : 890.948  
**Target** : PROTAC  
**Solubility** : 10 mM in DMSO



## Biological Activity

CDK2 degrader CPS2 is a potent, selective **CDK2 degrader** (PROTAC) with IC<sub>50</sub> of 24 nM, potently and specifically induces CDK2 degradation in various cancer cell lines (MDA-MB-231, DC<sub>50</sub>=8 nM; MV-4-11, DC<sub>50</sub>=1 nM).

CPS2 induced ubiquitination led to CDK2 degradation via the ubiquitin/proteasome system, this degradation required the binding of CPS2 to CDK2 and CRBN.

CPS2 did not directly perturb the other CDK proteins (such as CDK1, 4, 5, 6, 7, 8 and 9) under subnanomolar concentration conditions.

CPS2 induced AML cell differentiation, increased CD11b expression in a concentration-dependent manner in the NB4 cells, also promoted ATRA-induced CD11b upregulation in the HL60 cells.

CPS2 inhibited the proliferation of hematopoietic stem cells (HSCs) without inducing cytotoxicity, CPS2 also induced granulocytic differentiation of HSCs.

## References

Wang L, et al. *Nat Chem Biol*. 2021 May;17(5):567-575.

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

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