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# Data Sheet

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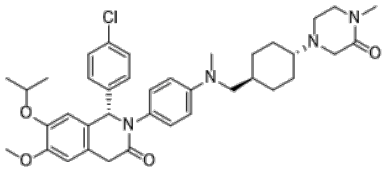
| **Product Name** | : | NVP-CGM097 |
| **Cat. No.** | : | PC-24496 |
| **CAS No.** | : | 1313363-54-0 |
| **Molecular Formula** | : | $C_{38}H_{47}ClN_4O_4$ |
| **Molecular Weight** | : | 659.27 |
| **Target** | : | MDM2-p53 |
| **Solubility** | : | 10 mM in DMSO |




CAS: 1313363-54-0

## Biological Activity

NVP-CGM097 is potent and selective MDM2 inhibitor with Ki of 1.3 nM (human MDM2, HDM2), inhibits p53-MDM2 protein-protein interaction with IC50 of 1.7 nM in TR-FRET assays.
NVP-CGM097 is 16-fold more potent on human than dog MDM2 and 51- and 37-fold more potent on human than mouse and rat MDM2, respectively.
NVP-CGM097 binds to human MDM2 with an IC50 of 1.7 nM and shows high selectivity over MDM4.
NVP-CGM097 is about four times more potent than Nutlin-3a (IC50 = 8.0 nM).
NVP-CGM097 significantly redistribute wild-type p53 into the cell nucleus with an IC50 of 0.224 μM.
NVP-CGM097 significantly inhibited the proliferation of cells expressing wild-type p53, while sparing the p53 null cells.
NVP-CGM097 dose dependently and significantly inhibited SJSA-1 tumor growth in rats.

## References

Jeay S, et al. Elife. 2015 May 12;4:e06498.

Holzer P, et al. J Med Chem. 2015 Aug 27;58(16):6348-58.

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

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