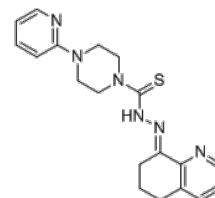


**Product Name** : COTI-2  
**Cat. No.** : PC-61494  
**CAS No.** : 1039455-84-9  
**Molecular Formula** : C<sub>19</sub>H<sub>22</sub>N<sub>6</sub>S  
**Molecular Weight** : 366.5  
**Target** : MDM2-p53  
**Solubility** : 10 mM in DMSO



## Biological Activity

COTI-2 (COTI2) is an orally available thiosemicarbazone that may act on mutant forms of **p53** and **PI3K/AKT/mTOR** pathway.

COTI-2 induces apoptosis in a wide variety of human tumor cells in culture (IC<sub>50</sub>s < 40 nM), inhibits the proliferation of colorectal cancer cell lines more effectively than cetuximab and erlotinib.

COTI-2 shows superior activity against tumor, and is safe and well-tolerated in vivo.

## References

Salim KY, et al. *Oncotarget*. 2016 Jul 5;7(27):41363-41379.

Duffy MJ, et al. *Eur J Cancer*. 2017 Jul 27;83:258-265.

Heffeter P, et al. *Antioxid Redox Signal*. 2018 Jan 15. doi: 10.1089/ars.2017.7487.

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

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