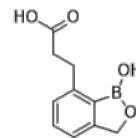


**Product Name** : AN3661  
**Cat. No.** : PC-24890  
**CAS No.** : 1268335-33-6  
**Molecular Formula** : C<sub>10</sub>H<sub>11</sub>BO<sub>4</sub>  
**Molecular Weight** : 206.00  
**Target** : Parasite  
**Solubility** : 10 mM in DMSO



CAS: 1268335-33-6

### Biological Activity

AN3661 is a specific small molecule inhibitor of *Toxoplasma gondii* CPSF3 (TgCPSF3), demonstrates potent activity against *Toxoplasma gondii* in vitro with IC<sub>50</sub> of 0.9  $\mu$ M.

The three mutated residues associated with AN3661 resistance (Y328C, Y483N and E545K) clustered to one side of the catalytic site of TgCPSF3.

AN3661 at 20 mg/kg orally for 7 days protected lethal *T. gondii* infection in murine model of acute toxoplasmosis

AN3661 shows mean IC<sub>50</sub> of 32 nM against *Plasmodium falciparum* laboratory-adapted strains, Ugandan field isolates (mean ex vivo IC<sub>50</sub> 64 nM), and murine *P. berghei* and *P. falciparum* infections (day 4 ED<sub>90</sub> 0.34 and 0.57 mg kg<sup>-1</sup>, respectively).

### References

Palencia A, et al. EMBO Mol Med. 2017 Mar;9(3):385-394.

Sonoiki E, et al. Nat Commun. 2017 Mar 6;8:14574.

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

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