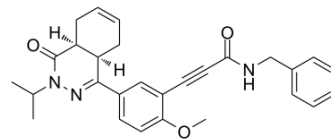


## NPD-1335

Cat. No.:	HY-126250
Molecular Formula:	C <sub>28</sub> H <sub>29</sub> N <sub>3</sub> O <sub>3</sub>
Molecular Weight:	455.55
Target:	Phosphodiesterase (PDE); Parasite
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the COA.



### BIOLOGICAL ACTIVITY

**Description** NPD1335 is a Trypanosoma brucei phosphodiesterase B1 (**TbrPDEB1**) inhibitor with submicromolar activities against T. brucei parasites. NPD1335 displays a greatly improved cytotoxicity profile. NPD1335 increases intracellular cAMP levels and results in the distortion of the cell cycle and cell death<sup>[1]</sup>.

**IC<sub>50</sub> & Target** pKi: 6.9 (TbrPDEB1); pIC<sub>50</sub>: 6.2 (T. brucei) (NPD-1335)<sup>[1]</sup>

### REFERENCES

[1]. de Heuvel E, et al. Alkynamide phthalazinones as a new class of TbrPDEB1 inhibitors (Part 2). Bioorg Med Chem. 2019 Jul 5. pii: S0968-0896(19)30790-4.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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