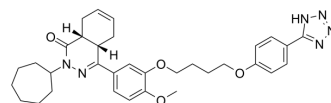


## NPD-001

Cat. No.:	HY-136637
CAS No.:	469863-16-9
Molecular Formula:	C <sub>33</sub> H <sub>40</sub> N <sub>6</sub> O <sub>4</sub>
Molecular Weight:	584.71
Target:	Phosphodiesterase (PDE); Parasite
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

Description	NPD-001 is a potent <i>Trypanosoma brucei</i> phosphodiesterases TbrPDEB1 and TbrPDEB2 inhibitor, with IC <sub>50</sub> values of 4 and 3 nM, respectively. NPD-001 also inhibits human PDEs (phosphodiesterases). NPD-001 shows good anti trypanosomal activity, with an IC <sub>50</sub> of 80 nM <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 3 nM (TbrPDEB2), 4 nM (TbrPDEB1) <sup>[1]</sup>

## REFERENCES

[1]. Veerman J, et al. Synthesis and evaluation of analogs of the phenylpyridazinone NPD-001 as potent trypanosomal TbrPDEB1 phosphodiesterase inhibitors and in vitro trypanocidals. *Bioorg Med Chem*. 2016 Apr 1;24(7):1573-81.

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

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