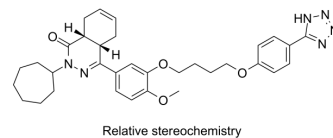


NPD-001

Cat. No.:	HY-136637		
CAS No.:	469863-16-9		
Molecular Formula:	C ₃₃ H ₄₀ N ₆ O ₄		
Molecular Weight:	584.71		
Target:	Phosphodiesterase (PDE); Parasite		
Pathway:	Metabolic Enzyme/Protease; Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (171.02 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.7102 mL	8.5512 mL	17.1025 mL
5 mM	0.3420 mL	1.7102 mL	3.4205 mL
10 mM	0.1710 mL	0.8551 mL	1.7102 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

NPD-001 is a potent *Trypanosoma brucei* phosphodiesterases TbrPDEB1 and TbrPDEB2 inhibitor, with IC₅₀ values of 4 and 3 nM, respectively. NPD-001 also inhibits human PDEs (phosphodiesterases). NPD-001 shows good anti trypanosomal activity, with an IC₅₀ of 80 nM^[1].

IC₅₀ & Target

Trypanosoma

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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