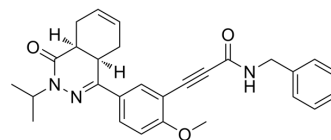


NPD-1335

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-126250 | | |
| CAS No.: | 2376326-31-5 | | |
| Molecular Formula: | C ₂₈ H ₂₉ N ₃ O ₃ | | |
| Molecular Weight: | 455.55 | | |
| 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 (219.51 mM; Need ultrasonic)

| Concentration | Mass | | |
|---------------|-----------|------------|------------|
| | 1 mg | 5 mg | 10 mg |
| 1 mM | 2.1951 mL | 10.9757 mL | 21.9515 mL |
| 5 mM | 0.4390 mL | 2.1951 mL | 4.3903 mL |
| 10 mM | 0.2195 mL | 1.0976 mL | 2.1951 mL |

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

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^[1]. NPD-1335 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.

IC₅₀ & Target

Trypanosoma

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.
- [2]. Erik de Heuvel, 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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA