THZ1-R

| Cat. No.: | HY-19988 | | | |
|--------------------|---|-------|---------|--|
| CAS No.: | 1621523-07-6 | | | |
| Molecular Formula: | C ₃₁ H ₃₀ ClN ₇ O ₂ | | | |
| Molecular Weight: | 568.07 | | | |
| Target: | CDK | | | |
| Pathway: | Cell Cycle/DNA Damage | | | |
| Storage: | Powder | -20°C | 3 years | |
| | | 4°C | 2 years | |
| | In solvent | -80°C | 2 years | |
| | | -20°C | 1 year | |

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SOLVENT & SOLUBILITY

| In Vitro | DMSO : ≥ 100 mg/mL (176.03 mM) * "≥" means soluble, but saturation unknown. | | | | | |
|------------------------------|--|---|--------------------|-----------------|-----------|--|
| Preparing Stock Solutions | | Solvent Mass Concentration | 1 mg | 5 mg | 10 mg | |
| | 1 mM | 1.7603 mL | 8.8017 mL | 17.6035 mL | | |
| | | 5 mM | 0.3521 mL | 1.7603 mL | 3.5207 mL | |
| | | 10 mM | 0.1760 mL | 0.8802 mL | 1.7603 mL | |
| | Please refer to the so | lubility information to select the app | propriate solvent. | | | |
| In Vivo | Solubility: ≥ 2.5 m 2. Add each solvent o | one by one: 10% DMSO >> 40% PEG g/mL (4.40 mM); Clear solution one by one: 10% DMSO >> 90% corr g/mL (4.40 mM); Clear solution | |) >> 45% saline | | |

| BIOLOGICAL ACTIVITY | | | | |
|---------------------------|--|--|--|--|
| Description | THZ1-R is a non-cysteine reactive analog of THZ1 which displays diminished activity for CDK7 inhibition. THZ1-R binds to CDK7 with a K _d of 142 nM. | | | |
| IC ₅₀ & Target | CDK7 146 nM (IC ₅₀) | | | |
| In Vitro | THZ1-R shows lower affinity at CDK7 than THZ1, with IC ₅₀ of 146 nM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | | |

Product Data Sheet

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PROTOCOL

Cell Assay ^[1]

Cells are seeded in 384-well microplates at 15% confluency in medium with 5% FBS and penicillin/streptavidin. Cells are treated with THZ1 or DMSO for 72 hrs and cell viability is determined using resazurin. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cancer Discov. 2019 Nov;9(11):1538-1555.
- Proc Natl Acad Sci U S A. 2019 Jun 25;116(26):12986-12995.
- Cell Death Dis. 2019 Aug 9;10(8):602.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Kwiatkowski N, et al. Targeting transcription regulation in cancer with a covalent CDK7 inhibitor. Nature. 2014 Jul 31;511(7511):616-20.

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

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