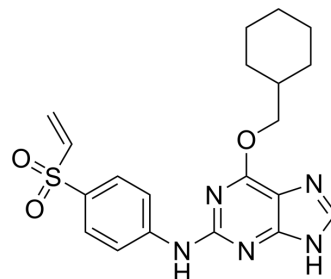


NU6300

| | | | |
|--------------------|---|-------|---------|
| Cat. No.: | HY-18930 | | |
| CAS No.: | 2070015-09-5 | | |
| Molecular Formula: | C ₂₀ H ₂₃ N ₅ O ₃ S | | |
| Molecular Weight: | 413.49 | | |
| 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 |



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 32 mg/mL (77.39 mM)
 * "≥" means soluble, but saturation unknown.

| | Solvent Concentration | Mass | | |
|------------------------------|--------------------------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 1 mM | 2.4184 mL | 12.0922 mL | 24.1844 mL |
| | 5 mM | 0.4837 mL | 2.4184 mL | 4.8369 mL |
| | 10 mM | 0.2418 mL | 1.2092 mL | 2.4184 mL |

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

BIOLOGICAL ACTIVITY

Description

NU6300 is a covalent, irreversible and ATP-competitive CDK2 inhibitor with an IC₅₀ value of 0.16 μM. NU6300 can be used for the research of eukaryotic cell cycle- and transcription-related^[1].

IC₅₀ & Target

CDK2

In Vitro

NU6300 (50 μM; 0-1 hour) covalently modifies and irreversible inhibits CDK2^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.
 Western Blot Analysis^[1]

| | |
|------------------|---------------|
| Cell Line: | SKUT-1B cells |
| Concentration: | 50 μM |
| Incubation Time: | 0-1 hour |

| | |
|---------|---|
| Result: | Affected retinoblastoma tumor suppressor protein (Rb) phosphorylation in SKUT-1B cells and covalently binded with CDK2. |
|---------|---|

REFERENCES

[1]. Anscombe E, et al. Identification and Characterization of an Irreversible Inhibitor of CDK2. Chem Biol. 2015 Sep 17;22(9):1159-1164.

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