Pelabresib

| Cat. No.: | HY-12863 | | |
|--------------------|---|-------|----------|
| CAS No.: | 1380087-89 | -7 | |
| Molecular Formula: | C ₂₀ H ₁₆ ClN ₃ O ₂ | | |
| Molecular Weight: | 365.81 | | |
| Target: | Epigenetic Reader Domain | | |
| Pathway: | Epigenetics | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |

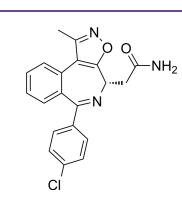
SOLVENT & SOLUBILITY

| | | Solvent Mass Concentration | 1 mg | 5 mg | 10 mg |
|--------|------------------------------|--|--------------------|-----------------|------------|
| | Preparing Stock Solutions | 1 mM | 2.7337 mL | 13.6683 mL | 27.3366 mL |
| | | 5 mM | 0.5467 mL | 2.7337 mL | 5.4673 mL |
| | | 10 mM | 0.2734 mL | 1.3668 mL | 2.7337 mL |
| | Please refer to the so | lubility information to select the app | propriate solvent. | | |
| n Vivo | | one by one: 10% DMSO >> 40% PEC ng/mL (5.69 mM); Clear solution | G300 >> 5% Tween-8 | 0 >> 45% saline | |
| | | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.69 mM); Clear solution | | | |
| | | one by one: 10% DMSO >> 90% cor ng/mL (5.69 mM); Clear solution | n oil | | |

| BIOLOGICAL ACTIV | |
|---------------------------|---|
| Description | Pelabresib (CPI-0610) is a potent, selective, orally active and cell-active BET inhibitor. Pelabresib inhibits BRD4-BD1 with an IC ₅₀ of 39 nM, and with an EC ₅₀ value of 0.18 μM for MYC ^[1] . |
| IC ₅₀ & Target | BRD4-BD1 39 nM (IC ₅₀) |
| In Vitro | Pelabresib (0-1500 nM; 72 hours; Multiple myeloma cell lines and primary MM cells) treatment reduces the viability of MM |

Product Data Sheet





cells in a dose-dependent manner^[2].

Pelabresib (800 nM; 72 hours; INA6 and MM.1S cells) treatment leads to G1 cell cycle arrest^[2].

Pelabresib (800 nM; 72 hours; INA6 and MM.1S cells) treatment significantly increases apoptosis in MM cells after 72 hours^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay^[2]

| Cell Line: | Multiple myeloma (MM) cell lines and primary MM cells |
|------------------|---|
| Concentration: | 0 nM, 200 nM, 400 nM, 600 nM , 800 nM, 1000 nM, 1200 nM, or 1500 nM |
| Incubation Time: | 72 huors |
| Result: | Decreased viability of MM cells in a dose-dependent manner. |

Cell Cycle Analysis^[2]

| Cell Line: | INA6 and MM.1S cells |
|------------------|-------------------------------|
| Concentration: | 800 nM |
| Incubation Time: | 72 hours |
| Result: | Indeced G1 cell cycle arrest. |

Apoptosis Analysis^[2]

| Cell Line: | INA6 and MM.1S cells |
|------------------|--|
| Concentration: | 800 nM |
| Incubation Time: | 72 hours |
| Result: | MM cells apoptosis was increased after 72 hours. |

In Vivo

Pelabresib (30-60 mg/kg; oral administration; for 28 days; MV-4-11 mouse xenograft model) treatment results in substantial suppression of tumor growth over the time period examined (41%, 80%, and 74% tumor growth inhibition, respectively), without any significant body weight loss in the animals^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

| Animal Model: | MV-4-11 mouse xenograft model ^[1] |
|-----------------|--|
| Dosage: | 30 mg/kg once daily, 30 mg/kg twice daily, or 60 mg/kg once daily |
| Administration: | Oral administration; for 28 days |
| Result: | Suppressed of tumor growth, without any significant body weight loss in the animals. |

REFERENCES

[1]. Albrecht BK, et al. Identification of a Benzoisoxazoloazepine Inhibitor (CPI-0610) of the Bromodomain and Extra-Terminal (BET) Family as a Candidate for Human Clinical Trials. J Med Chem. 2016 Feb 25;59(4):1330-9.

[2]. Siu KT, et al. Preclinical activity of CPI-0610, a novel small-molecule bromodomain and extra-terminal protein inhibitor in the therapy of multiple myeloma. Leukemia. 2017 Aug;31(8):1760-1769.

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

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