优睿科
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Data Sheet

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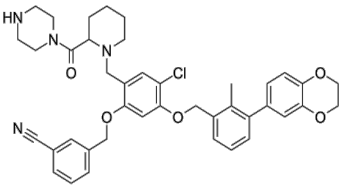
Global Supplier of Chemical Probes, Inhibitors & Agonists

Product Name :BMS-1166-N-piperidine-CO-N-piperazine
Cat.No. :URK-V2492
CAS No. :2447066-14-8
Molecular Formula :C41H43ClN4O5
Molecular Weight :707.26
Target :
Solubility :



Biological Activity

BMS-1166-N-piperidine-CO-N-piperazine contains PD-1/PD-L1 ligand and PROTAC linker. This compound has exhibited high potency and selectivity against PD-1/PD-L1 pathway.

PD-1 (programmed cell death protein 1) is a receptor found on immune cells, while PD-L1 (programmed death-ligand 1) is a ligand on tumor cells. When PD-1 binds to PD-L1, it inhibits the activity of immune cells, leading to immune evasion by the tumor. BMS-1166-N-piperidine-CO-N-piperazine works by selectively binding to PD-L1 and inducing PD-L1 degradation through the ubiquitin-proteasome system. This leads to the reactivation of immune cells and enhances their ability to kill tumor cells.

The development of BMS-1166-N-piperidine-CO-N-piperazine is a significant breakthrough in cancer treatment. By targeting the PD-1/PD-L1 pathway, it has shown promising results in preclinical studies for the treatment of different types of cancer, including melanoma, lung, and bladder cancer.

References

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2. Zhou Q, et al. Nat Commun. 2021;12(1):1-13.
3. Xu J, et al. OncoTargets Ther. 2021;14:2325.
4. Zhao M, et al. Front Oncol. 2020;10:580026.

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