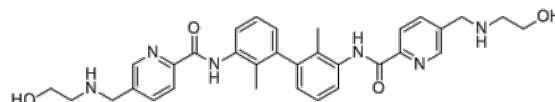


Product Name : ARB-272572
Cat. No. : PC-72493
CAS No. : 2368182-63-0
Molecular Formula : C₃₂H₃₆N₆O₄
Molecular Weight : 568.678
Target : PD-1/PD-L1
Solubility : 10 mM in DMSO



Biological Activity

ARB-272572 (ARB272572, Compound A) is a potent small-molecule **PD-L1** inhibitor, inhibits **PD-1/PD-L1** with HTRF IC₅₀ of 0.4 nM.

ARB-272572 induces PD-L1 dimerization and internalization, exhibits similar upregulation of CMV responses as αPD-L1 antibodies in CMV recall assay with IC₅₀ of 3.0 nM.

ARB-272572 is a potent in vitro inhibitor of PD-1/PD-L1 cell signaling through induction of PD-L1 protein homo-interactions, which can lead to immunostimulatory activity in human primary cells.

ARB-272572 inhibits tumor growth of PD-1/PD-L1 humanized mice implanted with MC38 cells expressing humanized PD-L1 (10 mg/kg orally).

ARB-272572 enhance HBV-specific immune responses not only activated Ag-specific T cells (IFN-γ production), but also directly stimulated Ag-specific B cells to proliferate and differentiate into Ab-secreting cells.

References

Jang-June Park, et al. *Nat Commun.* 2021 Feb 22;12(1):1222.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com