

PD-L1/LpxC-IN-1

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	PD-L1/LpxC-IN-1 (Compound 12b) is an inhibitor of PD-L1 and LpxC, with IC50 values of 5.2 μ M and 0.081 μ M, respectively. This compound disrupts bacterial lipopolysaccharide biosynthesis, leading to bacterial cell lysis and death. It effectively inhibits Gram-negative bacteria, exhibiting a minimum inhibitory concentration (MIC) of 0.25-0.5 μ g/mL against <i>K. pneumoniae</i> ATCC 13883, <i>E. coli</i> ATCC 8739, <i>S. typhimurium</i> ATCC 14028, and <i>P. aeruginosa</i> ATCC 9027. Additionally, PD-L1/LpxC-IN-1 modulates the immune response by downregulating the expression of inflammatory cytokines IL-2 and IFN- γ , and upregulating CD4+ and CD8+ cells, thus activating the immune system and mitigating excessive inflammatory responses. In a mouse model of <i>K. pneumoniae</i> ATCC 13883 infection, PD-L1/LpxC-IN-1 demonstrated antibacterial activity.
Targets(IC50)	Antibacterial,PD-1/PD-L1

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481