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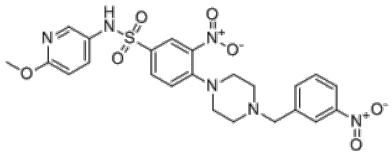
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	MyD88 inhibitor C17
Cat. No.	:	PC-21177
CAS No.	:	2911609-80-6
Molecular Formula	:	$C_{23}H_{24}N_6O_7S$
Molecular Weight	:	528.54
Target	:	MyD88
Solubility	:	10 mM in DMSO



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Biological Activity

MyD88 inhibitor C17 is a highly potent inhibitor of myeloid differentiation primary response protein 88 (**MyD88**), dose-dependently inhibits LPS-induced IL-6 and TNF-α in J774A.1 macrophages with IC50 of 2.17 and 8.17 uM, respectively.
MyD88 inhibitor C17 directly interacts with MyD88 in a dose-dependent manner with Kd of 53 uM in SPR assays.
MyD88 inhibitor C17 also shows inhibition on the release of cytokines in LPS-stimulated human THP-1 cells, suppresses TLR-MyD88 signaling in response to LPS stimulation.
MyD88 inhibitor C17 inhibits the interaction of TLR4 and MyD88 and suppressed the NF-κB pathway.
MyD88 inhibitor C17 treatment (20 mg/kg, orally) led to the accumulation in the lungs of rats and attenuated LPS-induced ALI mice model, with negligible toxicity in vivo.

References

Pan Chen, et al. ***J Med Chem***. 2023 May 25;66(10):6938-6958.

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

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