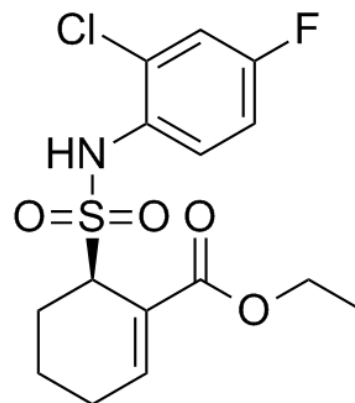


Product Name : TAK-242
Cat. No. : PC-42816
CAS No. : 243984-11-4
Molecular Formula : C₁₅H₁₇ClFNO₄S
Molecular Weight : 361.8162
Target : Toll-like Receptor (TLR)
Solubility : DMSO: ≥ 360 mg/mL



Biological Activity

TAK-242 (Resatorvid) is a small molecule **TLR4** signaling inhibitor that suppresses LPS-induced production of NO, TNF- α and IL-6 in RAW264.7 cells and mouse peritoneal macrophages with IC₅₀ of 1.1-11 nM.

TAK-242 also suppresses the production of these cytokines from LPS-stimulated human PBMCs with IC₅₀ of 11-33 nM, suppresses the cytokine production induced by TLR-4 ligands, but not by ligands for TLR2, -3, and -9.

TAK-242 binds to Cys747 in the intracellular domain of TLR4, inhibits MyD88-independent pathway as well as MyD88-dependent pathway.

TAK-242 demonstrates potent therapeutic effects on mouse sepsis model.

References

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Ii M, et al. *Mol Pharmacol.* 2006 Apr;69(4):1288-95.

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

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