

Data Sheet

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 Product Name
 : CU-CPT4a

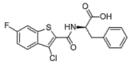
 Cat. No.
 : PC-20180

 CAS No.
 : 1279713-77-7

 Molecular Formula
 : C₁₈H₁₃CIFNO₃S

Molecular Weight: 377.81

Target : Toll-like Receptor (TLR)
Solubility : 10 mM in DMSO



Biological Activity

TLR3/dsRNA Complex Inhibitor (**CU-CPT4a**, TLR3i) is a specific small molecule inhibitor targeting the dsRNA binding region of **TLR3** with Ki of 2.96 uM, blocks Poly (I:C)-induced TLR3 activation with IC50 of 3.44 uM.

TLR3/dsRNA Complex Inhibitor (TLR3i) inhibits TLR3 signaling without affecting other TLRs (TLR1/2, TLR2/6, TLR3, TLR4, and TLR7).

TLR3/dsRNA Complex Inhibitor disrupts the TLR3/dsRNA association by directly targeting the RNA-binding site on TLR3. TLR3/dsRNA Complex Inhibitor also inhibits the downstream signaling transduction mediated by the formation of the TLR3/dsRNA complex. TLR3/dsRNA Complex Inhibitor abolishes the TNF- α and IL-1 β production activated by 15 μ g/ml Poly (I:C) in the RAW 264.7 cells with IC90 of 27 uM.

References

Cheng K, et al. *J Am Chem Soc.* 2011 Mar 23;133(11):3764-7.

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

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