

Data Sheet

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 Product Name
 :
 TH1020

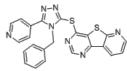
 Cat. No.
 :
 PC-21372

 CAS No.
 :
 1841460-82-9

 Molecular Formula
 :
 C₂₃H₁₅N₇S₂

 Molecular Weight
 :
 453.54

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



Biological Activity

TH1020 is a potent, selective antagonist of **TLR5**/flagellin protein-protein interaction with IC50 of 0.85 uM. TH1020 exhibits nearly negligible inhibition of TLR2, TLT4, TLR7 and TLR8 at 0.78 uM, and weak inhibition of TLR3. TH1020 represses the expression of downstream TNF- α signaling pathways mediated by the TLR5/flagellin complex formation.

TH1020 almost completely abolishes the TLR5-mediated TNF- α secretion at 0.37 uM in primary human peripheral blood mononuclear cells (PBMCs).

References

Yan L, et al. *ChemMedChem*. 2016 Apr 19;11(8):822-6.

Kamada H, et al. *Sci Rep*. 2023 Oct 28;13(1):18490.

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

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