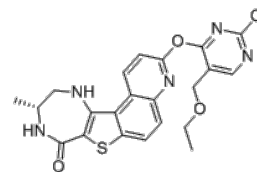


Product Name : CC-99677
Cat. No. : PC-21906
CAS No. : 1887069-10-4
Molecular Formula : C₂₂H₂₀ClN₅O₃S
Molecular Weight : 469.94
Target : MAPKAPK2 (MK2)
Solubility : 10 mM in DMSO



CAS: 1887069-10-4

Biological Activity

CC-99677 (Gamcemetinib, BMS-986371) is a potent, selective, covalent and orally bioavailable **MAPKAPK2 (MK2)** inhibitor with IC₅₀ of 156.3 nM, potently inhibits HSP27 phosphorylation (pHSP27) with EC₅₀ of 89 nM.

CC-99677 covalently binds MK2 with K_i of 171.7 nM.

CC-99677 potently inhibits TNFα and GM-CSF (IC₅₀=67 nM, 258 nM, respectively) and moderately inhibits IL-6 (IC₅₀=865 nM) in LPS-stimulated PBMCs.

CC-99677 (20 & 100 mg/kg CC-99677 PO) inhibits paw swelling in a rat model of ankylosing spondylitis (AS), shows favorable safety in healthy human subjects in clinical investigations.

References

Malona J, et al. *Transl Res.* 2022 Nov;249:49-73.

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

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