

## **Data Sheet**

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Global Supplier of Chemical Probes, Inhibitors & Agonists.

 Product Name
 :
 MP-A08

 Cat. No.
 :
 PC-45716

 CAS No.
 :
 219832-49-2

 Molecular Formula
 :
 C<sub>27</sub>H<sub>25</sub>N<sub>3</sub>O<sub>4</sub>S<sub>2</sub>

 Molecular Weight
 :
 519.6351

**Target** : Sphingosine kinase (SphK)

**Solubility** : 10 mM in DMSO

## **Biological Activity**

MP-A08 is a first-in-class, highly selective, ATP competitive sphingosine kinase (**SphK**) inhibitor (Ki of 6.9/27 uM for SK2/SK1).

MP-A08 inhibits S1P production and increases pro-apoptotic sphingolipids in Jurkat cells.

MP-A08 reduces the growth of human lung adenocarcinoma tumours in a mouse xenograft model by both inducing tumour cell apoptosis and inhibiting tumour angiogenesis.

## References

Pitman MR, et al. *Oncotarget*. 2015 Mar 30;6(9):7065-83.

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

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