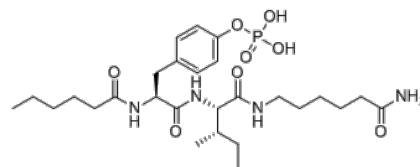


Product Name : Fosgonimeton
Cat. No. : PC-38394
CAS No. : 2093305-05-4
Molecular Formula : C₂₇H₄₅N₄O₈P
Molecular Weight : 584.651
Target : c-Met (HGFR)
Solubility : 10 mM in DMSO



Biological Activity

Fosgonimeton (ATH-1017, ATH-1001 prodrug) is a highly specific, small-molecule positive modulator of the **HGF/MET** neurotrophic system, is a prodrug that rapidly converts into the active metabolite ATH-1001 in plasma.

ATH-1001 crosses the blood-brain barrier and enhances the interaction of HGF with its receptor tyrosine kinase MET, inducing downstream signaling through PI3k/Akt and MAPK pathways and augmenting NMDA receptor-mediated long-term potentiation through PKC.

Fosgonimeton (ATH-1017) demonstrates potential with Alzheimer's disease (AD) and dementia, potentially improving dementia symptoms and altering disease progression by reversing synaptic disconnection and neuronal loss.

References

Xue Hua, et al. *J Alzheimers Dis.* 2022;86(3):1399-1413.

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

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